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<th>Type of Survey</th>
<th>SHORELINE (Photogrammetric)</th>
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<tr>
<td>Field No.</td>
<td>T-12953</td>
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<tr>
<td>Office No.</td>
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**LOCALITY**

State: VIRGIN ISLANDS  
General locality: SAINT THOMAS  
Locality: SAINT THOMAS HARBOR

1965-66  
CHIEF OF PARTY  
J. Bull, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE
## DESCRIPTIVE REPORT - DATA RECORD

### JOB PH-6504

<table>
<thead>
<tr>
<th>PROJECT NO. (III):</th>
<th>CHIEF OF PARTY</th>
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<td>JOB PH-6504</td>
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<td>J. Bull, Director, Atlantic Marine Center</td>
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### INSTRUCTIONS DATED (III) (III):

October 29, 1965

---

**METHOD OF COMPILATION (III):**

Kelsh

**MANUSCRIPT SCALE (III):**

1:5,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):**

1:3,000 photographed to 1:5,000

**DATE RECEIVED IN WASHINGTON OFFICE (IV):**


**DATE REPORTED TO NAUTICAL CHART BRANCH (IV):**


**APPLIED TO CHART NO.:**


**DATE: **


**DATE REGISTERED (IV):**


**GEOGRAPHIC DATUM (III):**

Puerto Rico

**VERTICAL DATUM (III):**

MHW

- Elevations shown as (2) refer to mean high water
- Elevations shown as (3) refer to sounding datum

- i.e., mean low water or mean lower low water

**REFERENCE STATION (III):**

ROCK, 1918

**LAT.:**

18°19'12" .492 (645.2m) ✓

**LONG.:**

64°56'00" .016 (0.5m)

- ADJUSTED ✓
- UNADJUSTED

**PLANE COORDINATES (IV):**

$Y = 180,405.73$ ft. ✓

$x = 1,020,221.60$ ft. ✓

**STATE:**

Virgin Islands

**ZONE:**

Puerto Rico Zone 1

---

Roman numerals indicate whether the item is to be entered by (I) Field Party, (II) Photogrammetric Office, or (IV) Washington Office. When entering names of personnel on this record give the surname and initials, not initials only.
### DESCRIPTIVE REPORT - DATA RECORD

**FIELD INSPECTION BY (III):**

<table>
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**MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):**

- Air Photo. compilation
- Date of photography 9 March 1965

**PROJECTION AND GRIDS RULED BY (IV):**

- A. E. Roundtree
- DATE: October 1965

**PROJECTION AND GRIDS CHECKED BY (IV):**

- J. Collum
- DATE: October 1965

**CONTROL PLOTTED BY (III):**

- B. H. Barnes
- DATE: December 1965

**CONTROL CHECKED BY (III):**

- A. C. Rauck, Jr.
- DATE: December 1965

**RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):**

- I. I. Saperstein
- DATE: November 1965

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

- PLANIMETRY: K. Boyle, L. Graves
  - DATE: January 1966
- CHECKED: R. Pate
- CONTOURS: Inapplicable

**MANUSCRIPT DELINEATED BY (III):**

- K. Boyle
- DATE: January 1966

**SCIBING BY (III):**

- B. Bage
- DATE: August 1966

**PHOTOGRAMMETRIC OFFICE REVIEW BY (III):**

- R. E. Smith
- DATE: June 1966

**REMARKS:**

- Field Edit by D. R. Rich, LTjg March 1966
### Photographs (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
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<th>Scale</th>
<th>Stage of Tide</th>
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<tr>
<td>65-L-1497</td>
<td>March 9, 1965</td>
<td>16:16</td>
<td>1:15,000</td>
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<tr>
<td>65-L-1498</td>
<td>&quot;</td>
<td>16:16</td>
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<td>65-L-1499</td>
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<td>65-L-1552</td>
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<td>65-L-1553</td>
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<td>16:37</td>
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<td>65-L-1554</td>
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<td>16:37</td>
<td>&quot;</td>
<td>-0.17</td>
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</table>

### Tides (III)

- Predicted
- Ratio of Ranges
- Mean Range
- Semidiurnal

### Reference Station
- GALVESTON, TEXAS
- Reference Station: Charlotte Amalie, St. Thomas Island
- Mean Range: 0.57
- Semidiurnal
- Range: 0.8

### Washington Office Review
- Feb. 1967

### Proof Edit
- Date: Feb. 1967

### Remarks
- None

### Number of Triangulation Stations Searched For (III):
- None

### Number of BMs Searched For (III):
- None

### Number of Recoverable Photo Stations Established (III):
- None

### Number of Temporary Photo Hydro Stations Established (III):
- None
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<th>COMPILED RECORD</th>
<th>COMPLETION DATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alongshore area for hydro</td>
<td>January 1966</td>
<td>Superseded</td>
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<tr>
<td>Field Edit applied</td>
<td>June 1966</td>
<td>Superseded</td>
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<tr>
<td>Manuscript complete</td>
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<tr>
<td>Corrected during Final Review</td>
<td>Feb. 1967</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12953

Shoreline map T-12953 is one of two similar maps compiled at 1:5,000 scale in project PH-6504. The primary purpose of the maps was to provide new shoreline and photo-hydro support data for hydrographic surveys in the general area of St. Thomas Harbor.

Field operations preceding compilation consisted of recovery and identification of horizontal control. Compilation was at 1:5,000 scale using the 1:15,000 scale panchromatic photography obtained in March 1965. Cronaflex copies of the manuscript, field photographs and specially prepared photo-hydro support photographs were provided for preparation of the hydrographer's boatsheet, field edit and photo-hydro support purposes.

The manuscript is a vinylite sheet 2 minutes 13.5 seconds in latitude by 1 minute 52.5 seconds in longitude which was scribed and reproduced on cronaflex. One cronar positive and one cronar negative are provided for record and registry.
T-12953

There was no Field Inspection prior to compilation.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR $\beta$-COORDINATE LONGITUDE OR $\lambda$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<tbody>
<tr>
<td>FLAG, 1918</td>
<td>G.P.S P. 59</td>
<td>PR 18°19'.55.061&quot; 61°54'.41.007&quot;</td>
<td>1692.8 (BACK)</td>
<td></td>
<td>1204.1</td>
<td>1204.1</td>
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<tr>
<td>HASSEL, 1918</td>
<td>G.P.S P. 60</td>
<td>&quot; 18°20'.11.716 64°56'.11.185</td>
<td>360.2</td>
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<td>625.3</td>
<td>625.3</td>
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<tr>
<td>ST. THOMAS SOUT HBSE, 1918</td>
<td>&quot;</td>
<td>&quot; 18°19'.56.444 64°55'.27.980</td>
<td>1735.3</td>
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<td>821.6</td>
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<td>PIER, 1918</td>
<td>G.P.S P. 74</td>
<td>&quot; 18°20'.29.630 64°55'.50.419</td>
<td>910.9</td>
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<tr>
<td>GREEN, 1918</td>
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<td>&quot; 18°18'.43.059 64°54'.31.178</td>
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<td>KING (KING'S WH.RF CON.RT. BLDG. FLAG.POLE), 1918</td>
<td>G.P.S P. 78</td>
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<td>BLUE (BLUEBEARD'S CASTLE, FLAG.POLE, 1918)</td>
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<td>EAST POINT LIGHTHOUSE, 1900</td>
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<td>ROCK, 1918</td>
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<td>COWELL'S BATTERY (SIG), 1900</td>
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<td>LONGITUDE PIER, 1900</td>
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<td>FORT CHRISTIAN FLAGSTAFF, 1900</td>
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<tr>
<td>STATION</td>
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<td>N.A. 1927 DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</td>
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</tr>
<tr>
<td>----------------</td>
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<td>A, 1965</td>
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<td>4027,756.96</td>
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</tbody>
</table>
Photogrammetric Plot Report
St. Thomas, Virgin Islands
Job PH-6504

21. **Area Covered**

The project covers two 1:5,000 sheets in the southern part of St. Thomas. The sheets are T-12952 and T-12953.

22. **Method**

Only the northern strip of photography was bridged on the stereoplanigraph. The southern strip could not be bridged across water. The points have been established between the northern and southern strips of photographs to facilitate the setting up of models for the southern strip on the Keish. The adjustment was made by IBM 1620 methods.

23. **Adequacy of Control**

The control provided, along with the 1965 Harry S. Truman Airport survey control, was adequate with the following exceptions: CHIMNEY, 1918 S.P.A. could not be held in the bridge and was not resolved. The chimney itself, therefore, was used. BRUSH, 1918 was identified direct, could not be held within allowable limits because of lack of imagery.

All additional control held within National Map Accuracy Standards for 1:5,000 scale mapping.

24. **Supplemental Data**

USGS Quadrangle CENTRAL ST. THOMAS, VIRGIN ISLANDS, scale 1:24,000 dated 1955 was used to provide basic vertical control for bridging operations.

25. **Photography**

Photography was adequate in coverage, overlap and definition.

26. **Plotting Constants**

Plotting constants for 1:5,000 scale manuscripts were provided for all bridge points.
Submitted by:

[Signature]
Irving I. Saperstein

Approved by:

[Signature]
John D. Perrow, Jr.

November, 1965
AEROTRIANGULATION SKETCH

ST. THOMAS, V. I.

Ph - 6504

Nov. 1965

LEGEND

- Local airport control, used as check.
COMPILATION REPORT
T-12953

The Photogrammetric Plot report is being submitted with this report.

31. DELINEATION

The Kelsh plotter was used. There was no field inspection. Photography was satisfactory.

32. CONTROL

See Photogrammetric Plot report.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Inapplicable.

35. SHORELINE AND ALONGSHORE DETAILS

There was no field inspection. Shoreline and alongshore details were delineated from office interpretation of the photography. No low water line was shown.

36. OFFSHORE DETAILS

See Item 49.

37. LANDMARKS AND AIDS

There was no Landmarks or Aids located or verified by the Field Editor or the Hydrographer.
39. JUNCTIONS

1:5,000 scale manuscripts; T-12952 and T-12953 lie within the limits of 1:10,000 manuscripts; T-12942, T-12943 and T-12948. A satisfactory junction has been made with T-12952 to the west. The 1:10,000 scale manuscripts are to be compiled at a later date.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

Comparison has been made with U.S.G.S. Quadrangle CENTRAL ST. THOMAS, V.I. scale 1:24,000 dated 1955.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart No. 933 scale 1:10,000 8th edition dated April 26, 1965.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Approved and forwarded:

R. E. Smith  
Cartographer

J. Bull, CAPT, USESSA  
Director, Atlantic Marine Center
18. GEOGRAPHIC NAME LIST

BARREL OF BEEF
BLUEBEARD HILL
CAREENING COVE
CARIBBEAN SEA
CAY BAY**
CHARLOTTE AMALIE
COWELL BATTERY*
COWELL POINT
EAST GREGERIE CHANNEL
FORT CHRISTIAN
FREDERIKSBERG POINT
HASSEL ISLAND

HAVENSIGHT POINT
KINGS WHARF
LISENLUND HILL *
LONG BAY
MULLENFEELS POINT
PACQUIEREAU BAY
POINT KNOLL
RUPERT ROCK
MORNINGSTAR BAY
SOLDIERS BAY*
ST. THOMAS HARBOR
ST. THOMAS ISLAND
WEST INDIAN DOCK**

* Not on A.J. Wraith's name list
** From Chart No. 933

* Not shown on this survey
49. **NOTES FOR THE HYDROGRAPHER**

Features believed to be of landmark value have been shown, but their visual or navigational value should be verified.

Rocks, piles, shoals, and other offshore features have been shown from office interpretation, they should be verified.

Three Lights or Buoys have been located from the Kelsh. These should be verified as to their positions and if they are lights or Buoys.

A discrepancy noted with notes for verification to the hydrographer and/or field editor is being forwarded with this report.
# Photogrammetric Office Review

**T-0353** 12953

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<thead>
<tr>
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<tr>
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### Control Stations

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<tr>
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<th>6. Recoverable Horizontal Stations of Less Than Third-Order Accuracy (Topographic stations)</th>
<th>7. Photo Hydro Stations</th>
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### Alongshore Areas (Nautical Chart Data)

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### 16. Aids to Navigation

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### Stereoscopic Instrument Contours

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### Cultural Features

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### Miscellaneous

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<th>33. Geographic Names</th>
<th>34. Junctions</th>
<th>35. Legibility of the Manuscript</th>
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### Reviewer

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<th>REVIEWER</th>
<th>SUPERVISOR</th>
<th>REVIEW SECTION OR UNIT</th>
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<tbody>
<tr>
<td>RES</td>
<td>RES</td>
<td>ACR Albert C. Rauch Jr.</td>
</tr>
</tbody>
</table>

### Remarks (See attached sheet)

**Field Completion Additions and Corrections to the Manuscript**

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>RES</th>
<th>ACR Albert C. Rauch Jr.</th>
</tr>
</thead>
</table>

**Supervisor**

<table>
<thead>
<tr>
<th>ACR Albert C. Rauch Jr.</th>
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</thead>
</table>
FIELD EDIT REPORT

ST. THOMAS HARBOR
V.I.

MARCH 1966

USC&GS SHIP WHITING

LCDR JAMES P. RANDALL, USESSA, COMMANDING

51: METHODS

For the most part the entire shoreline of St. Thomas Harbor was inspected from a skiff.

All corrections, deletions and additions have been noted on the appropriate photographs and discrepancy prints are cross referenced. Elevations of rocks were determined by use of a hand level. All wreck investigations will be done by the hydrographer (See Descriptive Report for Sheet WH-5-1-66).

All field edit information has been shown on the following sheets and photographs:

SHEETS: T-12952, T-12953

PHOTOS: 65L1552, 65L1554-1556, 65L1495-1498
52: ADEQUACY OF COMPILATION

Compilation is, with the following corrections, considered complete and adequate

T-12952

Deletions:
1. Cable beginning at............... 18°20'17"N 64°57'55"W
2. Unidentified object............... 18°20'12"N 64°57'52"W
3. Pipeline.......................... 18°20'00"N 64°57'51"W
4. Unidentified object from hydro Survey 4544a............... 18°19'35"N 64°57'48"W
5. Old pier.......................... 18°19'51"N 64°57'19"W
6. Pier ruins......................... 18°20'11"N 64°57'12"W 09"W
7. Daybeacon......................... 18°20'15"N 64°56'23"W
8. Wreck.............................. 18°19'48"N 64°56'54"W

Additions: None

Corrections: None

T-12953

Deletions:
1. Pier ruins....................... 18°19'56"N 64°56'01"W
2. Submerged rock................... 18°19'20"N 64°55'30"W

Additions: None

Corrections: None
53: MAP ACCURACY

No accuracy tests were made except by the hydrographer. In all cases the plot appeared well within hydrographic needs. The photo-identification of station SPRAT, 1918, was made to help strengthen the plot on the South end of Water Island.

54: RECOMMENDATIONS

No recommendations are offered. The office interpretation of photo images is considered excellent.

55: EXAMINATION OF PROOF COPY

The following residents of Charlotte Amalie, St. Thomas have examined the discrepancy prints for any possible errors: James E. Simmons (res. 32 yrs.), Harbor Master; Robert W. Conway (res. 20 yrs.), Harbor Pilot.

56: SHORELINE

All the shoreline on sheet T-12953 is adequate as shown except the shoreline around "Rupert Rock" (18°19'50"N, 64°55'38"W). Field identification of shoreline was indicated on the photographs as requested on the discrepancy prints.

All shoreline on sheet T-12952 is adequate as shown except the shoreline around SPRAT POINT. Field identification of shoreline was indicated on the photographs as requested on the discrepancy prints.
APPROVAL SHEET

Submitted by:
Donald R. Rich
LTJG, USESSA

Approved:
James P. Randall, LCDR, USESSA
Commanding USC&GS Ship WHITING
61. GENERAL STATEMENT

See Summary accompanying Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

The only prior registered survey in this area is Registered Survey No. 4544a which contains the shoreline and the hydrography accomplished from August 1923 to October 1925.

It was noted during final review that the position of the reference station on Survey 4544a (EAST PT. L.H. "EAST") is given as latitude 18° 19' 622.9m, longitude 64° 55' 53.9m. The position in the List of G.P. 's for EAST POINT LIGHTHOUSE, 1900 is latitude 18° 19' 622.9m, longitude 64° 55' 629.9m. This may possibly account for some of the differences in the shoreline and the apparent shift in position of some rocks in the comparison of the old and new survey.

This map supersedes the older survey for Nautical Chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. CENTRAL ST. THOMAS, V. I. quadrangle, 1:24,000 scale, edition of 1955. The comparison was generally favorable considering the difference in the scale of the two surveys.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boatsheet H-8877, 1:5,000 scale.

The shoreline on the boatsheet was taken from a copy of the Incomplete Manuscript and is not in agreement with that on the Advance Manuscript as many changes were made in the shoreline and positions of rocks during the application of Field Edit data and at the time of Final Review. A copy of the manuscript containing all of the changes was provided to the Hydrographic Processing Unit, Atlantic Marine Center, for smooth sheet use.
65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart 933, 1:10,000 scale, 8th edition, April 26, 1965, corrected through Notice to Mariners No. 39, September 25, 1965. All differences and discrepancies between the chart and this survey have been noted on the comparison print.

Special attention is brought to what may be a submerged rock at latitude 18° 20' 17" longitude 61° 56' 12". It is shown neither on the chart, survey 4544a nor the contemporary hydrographic survey. The image visible on photographs 65-L-1496, 1497, 1498 at this position could not be positively identified by the reviewer and is shown on the map as a submerged rock.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.

Future surveys in the area should check for the submerged rock mentioned in Item 65 and obtain the heights of all rocks that are dangerous to navigation.

Reviewed by:

[Signature]

Approved by:

[Signature]

Director, Atlantic Marine Center

Approved by:

[Signature]

Chief, Photogrammetric Branch

Chief, Photogrammetry Division

Chief, Nautical Chart Division
No rocks visible outside of reef limits. Photos 1496-1497

Note

— Shoreline in red from chart 933
— Shoreline in blue from survey 45-442a

Photos used in final review

<table>
<thead>
<tr>
<th>Photo</th>
<th>Date</th>
<th>Time</th>
<th>Stage of tide</th>
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<tbody>
<tr>
<td>65L 1497 Apr 1965</td>
<td>16:16</td>
<td>-1'</td>
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<tr>
<td>65L 1552 &amp; 1554 Mar 9, 1965</td>
<td>15:37</td>
<td>-2'</td>
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65-L-1554
submerged rock discernible
photos 1552-1553

only those rocks mapped
are visible 1552-1553

not discernible
photos 1552-1553

Point Knoll
Rk w/ part of reef

19'15"

5'30"

5'5'15"

19'00

65-L-1553

no wreck visible
photos 1552-53

Muhlenfels Point
Morningstar Bay
No rock visible 1552-1553

Wreck not visible on photo 1552-50

No rock awash visible photos 1552-1553

Barrel of Beef

Submerged rock part of reef

19'15"

19'00"

Rudin wreck

Limit of compilation

54°30'11"
**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.

<table>
<thead>
<tr>
<th>CHART</th>
<th>DATE</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<tr>
<td>933</td>
<td>9/4/74</td>
<td>Conte</td>
<td>Consider fully applied.</td>
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<td></td>
<td></td>
<td></td>
<td>Adequately Applied thru 933.</td>
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<td>Adequately Applied and Field.</td>
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Full Part Before After Verification Review Inspection Signed Via Drawing No.

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