<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6206</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-12215</td>
</tr>
<tr>
<td>Classification No.</td>
<td>Edition No.</td>
</tr>
<tr>
<td>Field Edited</td>
<td></td>
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</table>

**LOCALITY**
- State: Alaska
- General Locality: Keku Strait
- Locality: Threemile Arm, Mouth Of

1961 to 1971
Alfred C. Holmes, Director, AMC

**REGISTRY IN ARCHIVES**

DATE

U.S. GOVERNMENT PRINTING OFFICE: 1973-780-503
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
**PROJECT NO. (III):**

PH-6206

**FIELD OFFICE (III):**

None

**PHOTOGRAMMETRIC OFFICE (III):**

Atlantic Marine Center, Norfolk, VA

**CHIEF OF PARTY**

Alfred C. Holmes, Director, AMC

**OFFICER-IN-CHARGE**

**INSTRUCTIONS DATED (II) (III):**

<table>
<thead>
<tr>
<th>OFFICE SUPPLEMENT</th>
<th>DATE</th>
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<tbody>
<tr>
<td>III</td>
<td>December 19, 1967</td>
</tr>
<tr>
<td>IV</td>
<td>April 14, 1970</td>
</tr>
<tr>
<td>FIELD INSTRUCTIONS</td>
<td>February 11, 1969</td>
</tr>
<tr>
<td>OFFICE INSTRUCTIONS</td>
<td>January 18, 1965</td>
</tr>
</tbody>
</table>

**METHOD OF Compilation (III):**

Wild B-8 Stereo Plotter

**MANUSCRIPT SCALE (III):**

| 1:10,000 | 1:20,000 Pantographed to 1:10,000 |

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

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

**APPLIED TO CHART NO.:**

**DATE:**

**DATE REGISTERED (IV):**

Sgd. 4-1975

**GEOGRAPHIC DATUM (III):**

N.A. 1927

**REFERENCE STATION (III):**

FAD, 1929

**LAT.:**

56°34'20.447" (632.47) M

**LONG.:**

133°47'39.052" (666.81) M

**ADJUSTED**

**STATE**

Alaska

**ZONE**

1

Man numerals indicate whether the item is to be entered by (III) field party, (III) photogrammetric office, or (IV) Washington office.

When entering names of personnel on this record give the surname and initials, not initials only.
FIELD INSPECTION BY (III):

None

DATE:

MEAN HIGH WATER LOCATION (III) [STATE DATE AND METHOD OF LOCATION]:

Air Photo Compilation

DATE:

PROJECTION AND GRIDS RULED BY (IV):

J. Dempsey - Coradomat

DATE: April 10, 1970

PROJECTION AND GRIDS CHECKED BY (IV):

E. Honick

DATE: April 10, 1970

CONTROL PLOTTED BY (III):

Aerotriangulation - Coradomat
Triangulation - L. O. Neterer, Jr.

DATE:

June 11, 1970
July 24, 1970

CONTROL CHECKED BY (III):

Aerotriangulation - Coradomat
Triangulation - L. Craves

DATE:

June 11, 1970
July 24, 1970

RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

Robert Fisher

DATE: Feb. 19, 1970

STEREOSCOPIC INSTRUMENT COMPILATION (III):

PLANIMETRY By: L.O. Neterer
Reviewed By: A.L. Shands

DATE: July 8, 1970
July 8, 1970

CONTOURS

Inapplicable

DATE:

MANUSCRIPT DELINEATED BY (III):

L.O. Neterer, Jr.

DATE: July 17, 1970

SCRIBING BY (III):

R.R. White
F.P. Margiotta

DATE:

PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

Compilation: B. Wilson

DATE: Aug. 7, 1970

REMARKS:

Field Edit By-
LTG Russell C. Arnold and Photogrammetrist Lowell O. Neterer, Jr.

DATE:
April 29, 1971
**DESCRIPTIVE REPORT - DATA RECORD**

**T-12215**

**PHOTOGRAPHS (III)**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
</tr>
</thead>
<tbody>
<tr>
<td>69-E-(c)-971 &amp; 972</td>
<td>Aug. 5, 69</td>
<td>12:15</td>
<td>1:40,000</td>
<td>4.3 ft. above MLLW</td>
</tr>
<tr>
<td>61-W-(p)-9515 thru 9517</td>
<td>July 16, 61</td>
<td>10:25</td>
<td>1:20,000</td>
<td>0.2 ft. below MLLW</td>
</tr>
</tbody>
</table>

**Predicted Tide (III)**

<table>
<thead>
<tr>
<th>REFERENCE STATION:</th>
<th>Ketchikan, Alaska</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Seelusion Harbor, Kuiu Island, Alaska</td>
</tr>
</tbody>
</table>

**Tide Ranges:**

- Mean: 13.0 ft.
- Range: 15.4 ft.
- Mean: 10.2 ft.
- Range: 12.3 ft.

**Proof Edit by (IV):**

| DATE: | Charles H. Bishop | April 1973 |

**Number of Triangulation Stations Searched for (III):**

- Recovered: 3
- Identified: 0

**Number of BMs (S) Searched for (II):**

- None

**Number of Recoverable Photo Stations Established (III):**

- None

**Number of Temporary Photo Hydro Stations Established (III):**

- None

**Remarks:**
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compilation Complete Pending Field Edit</td>
<td>July 1970</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied</td>
<td>Sept, 1971</td>
<td>Superseded</td>
</tr>
<tr>
<td>Final Review</td>
<td>April 1973</td>
<td></td>
</tr>
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</table>
SHORELINE MAPPING PROJECT
Ph-6206
KEKU STRAITS, ALASKA
SCALE 1:10,000

AN ENLARGED DIAGRAM OF THE
1:5,000 SCALE SHEETS

Rev 3-3-57 68
Rev. 7-67 R.G.
Revised 1-6-65
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12215

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-5206, Keku Strait, Alaska. The project diagram indicates the location of T-12215 in the project.

There was no field work before compilation, except the identification of horizontal control for aerotriangulation. Compilation was by Wild B-8 methods with control based on a stereoplanigraph bridge using color photographs taken in August 1969. Panchromatic photographs taken in July, 1961 near low water were used to compile graphically the mean lower low water line, rocks, and reefs. Stable transparent copies of the map manuscript, ozalids, and specially prepared photographs were furnished for transfer of shoreline to the boat sheet, location of photo-hydro signals, and field edit.

Field edit was done in conjunction with hydrography in 1971. After application of field edit data to the map, it was scribed and reproduced on cronaflex.

Final review was done at the Atlantic Marine Center in April, 1973.

The compilation manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
FIELD INSPECTION REPORT
T-12215
JOB PH-6206

There was no field inspection prior to compilation.
21. Area Covered

This project covers areas in the vicinity of Keku Strait - Kuiu Island, Alaska. T-sheets covered are as follows:

T-12203 thru T-12225
all T-sheets are at 1:10,000 scale

22. Method

Five strips were bridged to provide horizontal positions of pass points needed for compilation. Strip #12 was bridged in two parts, 12a and 12b, because of open water. Strip #14 was not bridged due to satisfactory pass point coverage from Strips 13, 15 and 16.

Strip #11 was bridged on the C-5. Strips 12a, 12b, 13, 15 and 16 were bridged on the C-8. All were adjusted by electronic computer.

Strip #11 used seven control points and a tie point in a third degree adjustment.

Strip #12a used a first degree adjustment with two control points. One tie point was available for a check.

Strip #12b used a third degree adjustment with five control points.

Strip #13 used three control points in a second degree adjustment.

Strips 15 and 16 used four control points in third degree adjustments.

All pass points, except one in Strip #16, were drilled.

Corresponding tie point values were averaged.

This project was tied through common control stations with the 1966 project in this area.
23. Adequacy of Control

Horizontal control was adequate in all strips. However station "SPIT 1927" and its subpoint appearing in both Strip #11 of this project and in Strip #1 of the adjacent "Sumner Strait" project had residual errors on the order of 15 feet in X. These errors were similar in direction and magnitude for both points and in both strips. The reason for not obtaining a better check with these points is not known.

Many control stations in this project were recovered in 1965 and pricked on 1964, 1:20,000 scale photography. The 1970 bridge was run with new 1:40,000 scale photography, therefore, much of the old control was not visible in these bridges. All 1969 identified control used in this project was targeted.

The RMS errors in fit to control for the 1969 identified control, (except "SPIT 1927") and including the 1965 identified control "ALL 1927" and "CEN 1927" were 2.5 feet in X and 1.2 feet in Y. The maximum errors were 6.8 feet in X and 3.3 feet in Y.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustment of the bridges.

25. Photography

Photography was satisfactory with regards to coverage, overlap and definition.

Submitted by,

Robert E. Fisher
Cartographer (Photo)

Approved and forwarded,

Henry P. Eichert
Chief, Aerotriangulation Section
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>LONGITUDE OR X COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FT. = 304.800 mm)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Horizontal Control Data Alaska</td>
<td>NA</td>
<td>56° 34' 20.447&quot;</td>
<td></td>
<td>632.47</td>
</tr>
<tr>
<td>FAD, 1929</td>
<td>&quot; &quot;</td>
<td>&quot;</td>
<td>133° 47' 39.052&quot;</td>
<td></td>
<td>666.81</td>
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<tr>
<td></td>
<td>&quot; &quot;</td>
<td>&quot;</td>
<td>56° 35' 00.890&quot;</td>
<td></td>
<td>27.52</td>
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<tr>
<td>LAR, 1929</td>
<td>&quot; &quot;</td>
<td>&quot;</td>
<td>133° 48' 18.996&quot;</td>
<td></td>
<td>324.26</td>
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<tr>
<td>NTP, 1929</td>
<td>&quot; &quot;</td>
<td>&quot;</td>
<td>56° 35' 28.110&quot;</td>
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<td>869.50</td>
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<tr>
<td></td>
<td>&quot; &quot;</td>
<td>&quot;</td>
<td>133° 49' 23.307&quot;</td>
<td></td>
<td>397.76</td>
</tr>
</tbody>
</table>

COMPUTED BY L.O. Neterer, Jr. DATE 7/13/1970

CHECKED BY A.C. Rauck, Jr. DATE July 13, 1970
31. **DELINEATION**

The Wild B-8 Plotter was used to delineate the MHW Line. The MLW Line was delineated graphically. Photographic coverage was adequate.

32. **CONTROL**


33. **SUPPLEMENTAL DATA**

None

34. **CONTOURS AND DRAINAGE**

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and alongshore detail was delineated from office interpretation of the photographs. The MLW line was compiled graphically using 51-W photographs which were taken at 0.2 feet below MLW, predicted tide. There was no field inspection.

36. **OFFSHORE DETAILS**

The offshore details were delineated by office interpretation of the 51-W photographs.

37. **LANDMARKS AND AIDS**

None
38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Satisfactory junctions were made with T-12216 to the east; T-12219 to the south, and T-12214 to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

41-45. Not applicable.

46. **COMPARISON WITH EXISTING MAPS**

Comparison was made with USGS Quadrangle PETERSBURG (C-6) ALASKA, Scale 1:63,360, dated 1948, revised 1963.

47. **COMPARISON WITH NAUTICAL CHARTS**


**ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY**

None

**ITEMS TO BE CARRIED FORWARD**

None

Submitted:

L. O. Neterer, Jr.
Cartographic Technician
July 29, 1970
Approved for forwarding:

Melvin J. Urbach, CDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Arthur C. Holmes
RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206

T-12215

Kuiu Island
Threemile Arm

Approved by:  
A. Joseph Wraight
Chief Geographer

Prepared by:  
F. W. Pickett (2/4/15)
Cartographic Technician

August 28, 1972
**PHOTOGRAVMETRIC 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>
<td>B.W.</td>
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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>
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**BENCH MARKS**

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<tr>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAVMETRIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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<tbody>
<tr>
<td>XX</td>
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<td>B.W.</td>
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**ALONGSHORE AREAS (Nautical Chart Data)**

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<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>
<td>B.W.</td>
<td>B.W.</td>
<td>B.W.</td>
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**AIDS TO NAVIGATION**

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<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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<tbody>
<tr>
<td>XX</td>
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<td>B.W.</td>
<td>B.W.</td>
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**PHYSICAL FEATURES**

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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETABLE CONTOURS</th>
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<tbody>
<tr>
<td>B.W.</td>
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**STEREOSCOPIC INSTRUMENT CONTOURS**

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<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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<tbody>
<tr>
<td>XX</td>
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**CULTURAL FEATURES**

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<tr>
<th>27. ROADS</th>
<th>28. BUILDINGS</th>
<th>29. RAILROADS</th>
<th>30. OTHER CULTURAL FEATURES</th>
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**BOUNDARIES**

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<th>31. BOUNDARY LINES</th>
<th>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

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<tr>
<th>33. GEOGRAPHIC NAMES</th>
<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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</table>

**DISCREPANCY OVERLAY**

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<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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<tbody>
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**REVIEWER**

<table>
<thead>
<tr>
<th>40. REVIEWER: B. Wilson</th>
<th>41. REMARKS (See attached sheet)</th>
<th>42. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</th>
</tr>
</thead>
<tbody>
<tr>
<td>8/17/1970</td>
<td>Supervisor: A.C. Rauck, Jr.</td>
<td>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.</td>
</tr>
</tbody>
</table>

**COMPILER**

<table>
<thead>
<tr>
<th>Lowell O. Neterer, Jr.</th>
<th>Sept. 20/71</th>
<th>SUPERVISOR</th>
<th>T. Bulfer</th>
<th>Sept. 20/71</th>
</tr>
</thead>
</table>

**REMARKS**

FIELD EDIT REPORT
SOUTH KEKU STRAIT
SOUTHEAST ALASKA
CPR - 448
APRIL 1971

INTRODUCTION

Field edit reports are attached for the following T-sheets:

T-12214 Mouth of Three Mile Arm
T-12215 Head of Three Mile Arm
T-12217 Keku Strait - No Name Bay
T-12218 Seclusion Harbor
T-12219 Monte Carlo Island
T-12221 No Name Bay
T-12222 Alvin Bay
T-12223 West End of Conclusion Island

Inspection for field edit of the shoreline, the foreshore and the offshore areas were performed in April and May 1971 by the NOAA Ship DAVIDSON's personnel with the assistance of Mr. Lowell C. Neterer Jr. from the photogrammetry branch of the Atlantic Marine Center in Norfolk.

Notes have been made on the field photographs and have been cross referenced on the field edit overlay by photograph number. All times are on the 105° W Meridian. Reports for each individual sheet is enclosed.

Respectfully submitted,

[Signature]

Fidel T. Smith
LCDR. NOAA
FIELD EDIT REPORT
MAP T-12215
KEKU STRAIT - MOUTH OF THREE MILE ARM
SOUTHEAST ALASKA
APRIL 1971

The field edit of map T-12215 was done by Ens. Russell C. Arnold with the assistance of Lowell O. Neterer Jr. on April 29, 1971.

The inspection was done by carefully using the photographs while walking the beach and using a small boat to determine the accuracy of the map and to answer field edit questions.

METHOD

Field photographs and a copy of the field ozalid were taken into the field. The MHWL was visually inspected with particularly careful attention to the areas in question on the field edit ozalid and any changes are indicated on the field edit ozalid. Rocks, high points of ledges, ledge and foul area which showed extremely well on the 61-W photographs were inspected thoroughly for completeness and accuracy and any changes which could not be indicated on the 61-W photographs were referred to the Boat Sheet DA-10-1-71. A copy of DA-10-1-71 will be forwarded to AMC when available. All times are on 105° W meridian. Notes are on the following photographs:

61-W-9434
61-W-9502

ADEQUACY OF COMPILATION

The compilation of this map is very good. The hydrographic location of ledge and rocks compares well with the photogrammetric location of the same areas. The MHWL appears to be accurate in both shape and location. There are no aids to navigation, land marks or cultural detail on this map. The logging operations in this vicinity have ceased and the temporary buildings and floating docks have been removed. Field edit of this map is complete.

RECOMMENDATIONS

It is recommended the map be revised in accordance with the notes on the Field Edit Ozalid, photographs and the Boat Sheet and the map be accepted as an advance manuscript.

Respectfully submitted,

Russell C. Arnold
Ens. NOAA

Lowell O. Neterer Jr.
Photogrammetrist
APPROVAL SHEET

Field Edit
South Keku Strait
Southeast Alaska
GPR - 448
April 1971

The field work on this edit was accomplished under my supervision.

Ray E. Moses
CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON
REVIEW REPORT T-12215

SHORELINE

April 10, 1973

61. GENERAL STATEMENT

See Summary which is page 6 of this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

No registered topographic surveys were available for comparison, T-12215 supersedes all previous surveys for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A visual comparison was made with USGS Quadrangle PETERSBURG (C-6), ALASKA, scale 1:63,360, dated 1948. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a copy of the boat sheet for Survey H-9213. Significant differences between this survey and T-12215 are shown in purple on the comparison print. The mean lower low water line was in fair agreement and was left on the manuscript for whatever use it may be to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

A visual comparison was made with Chart 8201, Scale 1:217,828, 16th edition, dated November 7, 1970. The chart scale was too small for adequate comparison. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Reviewed by:

Charles H. Bishop
Cartographer
Approved for forwarding:

Melvin J. Umbach
QDR, NOAA
Chief, Coastal Mapping Division, AMC

Approved:

Alfred C. Holmes
RALM, NOAA
Director, Atlantic Marine Center

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division
INDEX TO ADJOINING SHEETS JOB PH-6206

T-12215
1:10,000

NOTE:
A The photogrammetric location of all
offshore from the mean high-water
may not be complete or final. The
reviewed hydrographic survey of the
should be consulted for the final

*Not visible on any photograph of the area*