# DESCRIPTIVE REPORT

**Type of Survey** Shoreline (Photogrammetric)

**Field No.** Office No. T-12819

## LOCALITY

**State** Alaska

**General locality** Keku Strait

**Locality** South of Eagle Island

**Date** 1961-1969

**CHIEF OF PARTY**

Alfred C. Holmes, Director, AMC

**LIBRARY & ARCHIVES**

**DATE**
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
**DESCRIPTIVE REPORT - DATA RECORD**

**T-12819**

<table>
<thead>
<tr>
<th>PROJECT NO. (III):</th>
<th>PH-6206</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIELD OFFICE (III):</td>
<td>None</td>
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<tr>
<td>CHIEF OF PARTY</td>
<td></td>
</tr>
<tr>
<td>PHOTOGRAHMETRIC OFFICE (III):</td>
<td>Atlantic Marine Center, Norfolk, VA</td>
</tr>
<tr>
<td>OFFICER-IN-CHARGE</td>
<td>Alfred C. Holmes, Director, AMC</td>
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</table>

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

- OFFICE INSTRUCTIONS: January 18, 1965
- SUPPLEMENT III: December 19, 1967
- IV: April 14, 1970
- FIELD INSTRUCTIONS: February 11, 1969

**METHOD OF COMPIATION (III):**

Wild B-8 and Graphic

**MANUSCRIPT SCALE (III):** 1:5,000

**STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):** 1:7,500 Pantographed 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):** NA. 1927

**REFERENCE STATION (III):**

CEN 1927

**LAT.:** 56°36'48.190" (1490.6m)

**LONG.:** 133°41'51.881" (384.9m)

**ADJUSTED**

**UNADJUSTED**

**PLANE COORDINATES (IV):**

| y = 1,745,965.30 Ft. | x = 2,679,383.10 Ft. |

**STATE:** Alaska

**ZONE:** 1

**MEAN DATUM (IV):**

**EXCEPT AS FOLLOWS:**

- Elevations shown as (25) refer to mean high water
- Elevations shown as (25) refer to sounding datum

I.e., mean lower low water

**USCG-DC 36393A-P66**
# DESCRIPTIVE REPORT - DATA RECORD

## T-12819

### FIELD INSPECTION BY (III):

None

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

Air Photo Compilation  
Date of Photography

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Date</th>
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</thead>
<tbody>
<tr>
<td>L. F. Van Scy</td>
<td>Sept. 27, 1967</td>
</tr>
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### PROJECTION AND GRIDS CHECKED BY (IV):

<table>
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<th>Name</th>
<th>Date</th>
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<tr>
<td>R. Glaser</td>
<td>Sept. 28, 1967</td>
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<th>Name</th>
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<td>L. O. Neterer</td>
<td>Nov. 14, 1967</td>
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### CONTROL CHECKED BY (III):

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<th>Name</th>
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<tr>
<td>B. L. Barge</td>
<td>Nov. 15, 1967</td>
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### RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):

<table>
<thead>
<tr>
<th>Name</th>
<th>(W.S.C.)</th>
</tr>
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<tbody>
<tr>
<td>W. Heinbaugh</td>
<td></td>
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### STEREOSCOPIC INSTRUMENT COMPILATION (III): PLANIMETRY

<table>
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<tr>
<th>Name</th>
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<tbody>
<tr>
<td>B. L. Barge</td>
<td>April 12, 1968</td>
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### CONTOURS

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<th>Date</th>
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<tbody>
<tr>
<td>Inapplicable</td>
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### MANUSCRIPT DELINEATED BY (III):

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<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>B. L. Barge</td>
<td>May 31, 1968</td>
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### SCRIBING BY (III):

<table>
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<tr>
<th>Name</th>
<th>Date</th>
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<tr>
<td>F. P. Margiotta</td>
<td>Feb. 9, 1972</td>
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### PHOTOGRAMMETRIC OFFICE REVIEW BY (III):

<table>
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<tr>
<th>Name</th>
<th>Date</th>
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<tbody>
<tr>
<td>R. J. Pate</td>
<td>July 1968</td>
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### REMARKS:
**PHOTOGRAPHS (III)**

<table>
<thead>
<tr>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>64-W(c)-1150 thru 1152</td>
<td>16 June 1964</td>
<td>10:44</td>
<td>1:15,000</td>
<td>4.0 Ft. above MLW</td>
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<tr>
<td>61 W 9543 and 9544</td>
<td>16 July 1961</td>
<td>10:36</td>
<td>1:20,000</td>
<td>0.4 Ft. below MLW</td>
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**Predicted TIDE (III)**

<table>
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<tr>
<th>REFERENCE STATION:</th>
<th>Ketchikan, Alaska</th>
<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
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<tbody>
<tr>
<td>SUBORDINATE STATION:</td>
<td>Beck Island, Keku Strait</td>
<td>13.0</td>
<td>15.4</td>
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<tr>
<td>SUBORDINATE STATION:</td>
<td></td>
<td>11.5</td>
<td>13.8</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

<table>
<thead>
<tr>
<th>PROOF EDIT BY (IV):</th>
<th>DATE:</th>
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**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** 1

<table>
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**NUMBER OF BM(S) SEARCHED FOR (II):** None

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<tbody>
<tr>
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**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** None

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):** None

**REMARKS:**
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<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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<tr>
<td>Compilation Complete</td>
<td>May 31, 1968</td>
<td>Superseded</td>
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<tr>
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<td>Field Edit Applied</td>
<td>Feb. 24, 1970</td>
<td>Superseded</td>
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<tr>
<td>Final Review</td>
<td>Feb. 1973</td>
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SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12819

This 1:5,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12819 in the project.

There was no field work prior to compilation, except the identification of horizontal control for aerotriangulation.

Compilation was by Wild B-8 methods, using panchromatic photographs taken in 1961 and color photographs taken in 1964. Control was based on a stereoplanigraph bridge. 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 1969. 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 February, 1973.

The compilation manuscript was a vinylite sheet 1 minute 30 seconds in latitude by 3 minutes 30 seconds in longitude.

A cronaflex copy of the final reviewed manuscript and a negative have been forwarded for record and registry.
FIELD INSPECTION REPORT

Project PH-6206

T-12819

There was no field inspection prior to compilation.
AEROTRIANGULATION REPORT
Keku Straits, Alaska
Job PH-6205

21. Area Covered

This report pertains to that portion of Keku Straits between 56° 33' 45" and 56° 45' 00".

22. Method

Two strips of photography were bridged using stereoplani-graph and emulsion-drilled diapositives. Measurements made by the stereoscopic instruments were adjusted using 1620 IEM programs.

23. Adequacy of Control

Number and location of field-identified horizontal control stations were adequate to control the bridges with sufficient accuracy to comply with National Standards of Map Accuracy. Station LC 1927 did not hold in the adjustment but closer investigation revealed that an apparent transposition of distances to the substitute stations had occurred. After recomputing the positions all control held satisfactorily.

24. Supplemental Data

U.S.G.S. quadrangles, Petersburg (C-5 and C-6), Alaska, scale 1:63,360, 1948 edition, were used to determine elevations to provide vertical control where required.

25. Photography

Photography was adequate for coverage, definition and endlap.

Respectfully submitted:

[Signature]
W. Heinbaugh

Approved by:

[Signature]
KEKU STRAITS, ALASKA
PH. - 6206
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR Y COORDINATE</th>
<th>DISTANCE FROM GRID OR PROJECTION LINE</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>N.A. 56° 36' 48.190&quot;</td>
<td>1490.6 (365.3)</td>
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<tr>
<td>CEN, 1927</td>
<td>G.P. Vol. 2</td>
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<td>133° 41' 51.881&quot;</td>
<td>884.9 (138.5)</td>
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<tr>
<td>WES, 1927</td>
<td>P. 366</td>
<td>1927</td>
<td>56° 36' 39.33&quot;</td>
<td>1195.6 (670.3)</td>
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<td></td>
<td></td>
<td></td>
<td>133° 42' 16.49&quot;</td>
<td>281.3 (742.3)</td>
</tr>
</tbody>
</table>

COMPUTED BY  
B. L. Barge  
DATE 11/29/67  
CHECKED BY  
A. L. Shands  
DATE 4/26/67
31. **DELINEATION**

   The Wild B-8 was used. The compilation models consisted of two parallel flights of 1964 color photography with no side-lap. Details in the resulting hiatus were compiled graphically, using 1961 panchromatic photography.

32. **CONTROL**

   See "AEROTRIANGULATION REPORT" by W. Heinbaugh. (not dated)

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 mean high water line was delineated from the color photography. The approximate mean lower low water line was located with the aid of the 1961 panchromatic photography, as were kelp areas. These photographs were taken at a predicted tide of 0.4 feet below mean lower low water.

36. **OFFSHORE DETAILS**

   Offshore details were compiled in the same manner as the shoreline and alongshore details.

37. **LANDMARKS AND AIDS**

   None
38. **CONTROL FOR FUTURE SURVEYS**

None

39. **JUNCTIONS**

Satisfactory junctions have been made with sheet T-12817 to the northwest; T-12818 to the northeast, and T-12820 to the east. There are no contemporary 1:5,000 scale sheets to the west or south.

40. **HORIZONTAL AND VERTICAL ACCURACY**

No statement.

46. **COMPARISON WITH EXISTING MAPS**

A comparison was made with USGS Quadrangle PETERSBURG, (C-6), scale 1:53,350, dated 1948.

47. **COMPARISON WITH NAUTICAL CHARTS**

A comparison was made with Chart 8272, KEKU STRAIT, scale 1:20,000, 2nd Edition dated November 14, 1960, revised March 18, 1963.

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

None

**ITEMS TO BE CARRIED FORWARD**

None

Submitted by:

Charles M. Harding

for B. L. Barge
Cartographic Technician
5-31-68

Approved for forwarding:

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

Approved:

Alfred G. Holmes, RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)
T-12819

Eagle Island
Keku Strait
Kuiu Island
Rocky Pass

Approved by:

A. J. Wright
Chief Geographer
A. Joseph Wraight

Prepared by:

Frank W. Pickett
Cartographic Technician
NOTES FOR THE HYDROGRAPHER:

1- There was no field inspection prior to compilation; therefore, occasional measurements should be made from identifiable points on the photographs to the NWWL to verify compilation.

2- If there are landmarks or fixed aids to navigation within the area of this map, investigate and submit Form 567.

3- Give character of foreshore areas (sand, mud, etc.).

4- Foul, shoal, and reef areas and rocks shown on this manuscript were determined by office interpretation of aerial photographs of the area. Their existence and extent should be verified by the hydrographer. If a foul, shoal, or reef area or rock does not exist, this fact should be noted on the Field Edit Ozalid.

5- See Field Edit Ozalid for other notes.
### PHOTOGRAHMNETIC 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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<tbody>
<tr>
<td>RJP</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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#### BENCH MARKS

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<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAPHIC PLOT REPORT</th>
<th>11. DETAIL POINTS</th>
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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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#### AIDS TO NAVIGATION

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<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>
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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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#### DURAMETRIC INSTUMENT CONTOURS

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<tr>
<th>23. DURAMETRIC INSTUMENT CONTOURS</th>
<th>24. CONTOURS IN GENERAL</th>
<th>25. SPOT ELEVATIONS</th>
<th>26. OTHER PHYSICAL FEATURES</th>
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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>32. PUBLIC LAND LINES</th>
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#### MISCELLANEOUS

<table>
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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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#### DISCREPANCY OVERLAY

<table>
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<tr>
<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
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<tbody>
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#### REVIEWER

<table>
<thead>
<tr>
<th>39. FORMS</th>
<th>40. REVIEWER</th>
</tr>
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<tbody>
<tr>
<td>RJP</td>
<td>SUPERVISOR, REVIEW SECTION OR UNIT</td>
</tr>
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</table>

#### 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.

#### FIELD COMPLETION ADS AND CORRECTIONS TO THE MANUSCRIPT

43. Remarks

- Field Edits applied from: Field Edits Ozalid, film ozalid, and Field Photo 64 W 1151
FIELD EDIT REPORTS

Keku Strait
Southeast Alaska
OPR-448

MAPS
T-12812
T-12813
T-12814
T-12815
T-12816
T-12817
T-12818
T-12819
T-12820

June-August 1969
FIELD EDIT REPORTS
Keku Strait
Southeast Alaska
OPR-448
June-August 1969

INTRODUCTION

Field edit reports are attached for the following maps:

- T-12812
- T-12813
- T-12814
- T-12815
- T-12816
- T-12817
- T-12818
- T-12819
- T-12820

Field photographs and copies of the field edit ozalids were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field. Isolated rocks, high points of ledges, ledge limits, and some shoreline were located by three-point fixes with check angles. Fixes were plotted on boat sheets:

- DA-5-2-69
- DA-5-3-69
- DA-5-4-69
- DA-5-5-69

and then transferred to the T-sheets and ozalids for comparison.

Notes have been made in violet on the field photographs and have been cross-referenced on the Field Edit Ozalids by photograph number. All times are based on 105° West meridian.

Generally compilation of the maps is good. It is recommended that the maps be revised in accordance with the notes on the photographs and that the maps, with the exceptions of T-12813, T-12815, and T-12818, be accepted as advance manuscripts. Maps T-12813, T-12815, and T-12818 should be compiled using the recent photographs. It is recommended that the compiler obtain copies of the above boat sheets and use them in compiling the advance manuscripts.

Field inspection of these maps is complete except for map T-12820.

Copies of "Nonfloating Aids or Landmarks for Charts", form C&GS 567, are attached.
FIELD EDIT REPORT
MAP T-12819
Keku Strait
Southeast Alaska
OPR-448
July-August 1969

Field edit of map T-12819 was done by LT Edward Gelb between 27 July and 11 August 1969. Inspection was done on foot and in a 12-foot whaler.

METHOD

Due to poor weather only copies of the "Field Edit Ozalid" could be taken into the field. Shoreline was verified by visual inspection of the shoreline and ozalid in the field. Isolated rocks, high points of ledges, and ledge limits were located by three-point fixes with check angles. Fixes were plotted on boat sheet DA-5-5-69 and then transferred to the T-sheet and ozalid for comparison.

All notes have been inked in violet on field photograph #64W151.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic location of isolated boulders compares well with the photogrammetric location of the same boulders.

Several islands near triangulation station CEN 1927 should be joined for clarity.

Field inspection of this map is complete.

RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes on the photograph and that the map be accepted as an advance manuscript.

Respectfully submitted

Bruce W. Fisher

Bruce W. Fisher
LTJG USESSA
APPROVAL SHEET
for
FIELD EDIT
Keku Strait
Southeast Alaska
OPR-448
June-August 1969

The field edit of the following manuscripts was accomplished under my supervision:

T-12812  T-12817
T-12813  T-12818
T-12814  T-12819
T-12815  T-12820
T-12816

Frequent inspections of the field edit work and of plotted comparisons on the boat sheets were made.

R. E. Moses
Roy E. Moses
CDR, USESSA
Commanding Officer
USCGS DAVIDSON
REVIEW REPORT T-12819

SHORELINE

February 5, 1973

61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with Survey No. 4331, scale 1:10,000, dated August-September 1927. Significant differences between this survey and T-12819 were shown in blue on the comparison print.

Survey No. 4331 is now obsolete for Chart construction purposes. The compared area is superseded by T-12819.

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 Survey H-9081, scale 1:5,000, dated July-August 1969.

Shoreline compared well, as T-12819 was the source for this feature. Differences between the hydrographer's determination and the compiler's photo interpretation of ledge limits on photos taken at -0.4 ft. predicted tide could not be resolved. The H-9081 limits could not be followed on the photographs.

The mean lower low water line on T-12819 was interpreted from low water photography (-0.4 ft) and was left on the map for whatever use it might be to the chart compiler.

Differences between T-12819 and H-9081 are shown in purple on the comparison print.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, dated 21 Nov. 1970. Shoreline differences between this chart and T-12819 are the same as shoreline differences between T-4331 and T-12819.
65. **COMPARISON WITH NAUTICAL CHARTS (cont'd)**

Therefore, the blue line on the comparison print indicates differences between T-12819 and both Chart 8272 and T-4331. Other differences between T-12819 and Chart 8272 are shown in red on the comparison print.

66. **ADEQUACY OF RESULTS AND FUTURE SURVEYS**

This survey complies with Job Instructions and meets the National Standards for Map Accuracy.

Reviewed by:

Charles H. Bishop
Cartographer

Approved for forwarding:

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

Approved:

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

Approved:

Chief, Photogrammetric Branch  Chief, Coastal Mapping Division
COMPARISON PRINT

Blue = T-4331
Red = Chart 8272
Purple = H-8091

NOTE:
"The photogrammetric location and delineation of features offshore from the mean high-water line on this survey may not be complete or final. The contemporary reviewed hydrographic survey of the area where available, should be consulted for the final delineation."
LAND

Photo

61 W 95° 43' - 44” -0.4 predicted

64 W (c) 11° 50' - 52” 3.5’

Tide

56° 30’

COMPARISON PRINT

Blue = T-4331
Red = Chart 8272
Purple = H-8091

T-12819
1:5,000