<table>
<thead>
<tr>
<th><strong>Type of Survey</strong></th>
<th>SHORELINE (Photogrammetric)</th>
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<tbody>
<tr>
<td><strong>Field No.</strong></td>
<td>T-12209</td>
</tr>
<tr>
<td><strong>Office No.</strong></td>
<td>12209</td>
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**LOCALITY**

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<tr>
<th><strong>State</strong></th>
<th>ALASKA</th>
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<tr>
<td><strong>General locality</strong></td>
<td>KEXI STRAIT</td>
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<tr>
<td><strong>Locality</strong></td>
<td>HIGH ISLAND, WEST OF</td>
</tr>
</tbody>
</table>

**CHIEF OF PARTY**

Alfred C. Holmes  
Director, Atlantic Marine Center

**DATE**

1961-70
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
### Project No. (III):

PH-6206

### Field Office (II):

NONE

### Chief of Party:

OFFICER-IN-CHARGE

ATLANTIC MARINE CENTER, NORFOLK, VA. ALFRED C. HOLMES, DIRECTOR

### Instructions Dated (III)

- OFFICE SUPPLEMENT III: DECEMBER 19, 1967
- OFFICE SUPPLEMENT IV: APRIL 14, 1970
- FIELD INSTRUCTIONS: FEBRUARY 11, 1969
- OFFICE INSTRUCTIONS: JANUARY 18, 1965

### Method of Compilation (III):

WILD B-8 STEREOPLOTTER AND GRAPHIC

### Manuscript Scale (III):

1:10,000

### Stereoscopic Plotting Instrument Scale (III):

1:20,000 PANTOGRAPHED TO 1:10,000

### Date Reported to Nautical Chart Branch (IV):

DATE REGISTERED (IV):

Sgd. 4. 1925

### Geographic Datum (III):

N.A. 1927

### Reference Station (III):

HAY, 1927

### Latitude (LAT.):

56°42'53.324" (1649.4m)

### Longitude (LONG.):

133°45'21.423" (364.4m)

### Plane Coordinates (IV):

\( y = 1,783,026.93 \text{ ft.} \quad x = 2,667,706.33 \text{ ft.} \)

### State:

ALASKA

### Zone:

1

---

The above contains the details of a descriptive report, including information on the project, methods of compilation, geographic datum, and plane coordinates. It indicates the scales and instructions related to the work. The report is signed and registered on April 4, 1925. No specific field or photogrammetric office is mentioned in the document.
# DESCRIPTIVE REPORT - DATA RECORD

**T-42209**

**FIELD INSPECTION BY (III):**

NONE

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

AIR PHOTO COMPILATION

DATE OF PHOTOGRAPHY: AUGUST 5, 1969

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

J. Dempsey

DATE: April 10, 1970

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

E. Homick

DATE: April 10, 1970

**CONTROL PLOTTED BY (III):**

CORADOMAT

DATE: April 10, 1970

**CONTROL CHECKED BY (III):**

CORADOMAT

DATE: April 10, 1970

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

Robert E. Fisher

DATE: February 19, 1970

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

PLANIMETRY

Reviewed by: L. O. Neterer, Jr.

DATE: May 19, 1970

Reviewed by: A. L. Shands

DATE: May 19, 1970

CONTOURS

**MANUSCRIPT DELINEATED BY (III):**

L. O. Neterer, Jr.

DATE: June 12, 1970

**SCRIBING BY (III):**

H. CANN

DATE: Aug. 3, 1971

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

L. L. Graves

DATE: June 18, 1970

**REMARKS:**

FIELD EDIT BY LTCDR F. T. SMITH June-Oct. 1970
### 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(0) 963 and 964</td>
<td>5 Aug. 1969</td>
<td>12:02</td>
<td>1:40,000</td>
<td>5.3 feet above MLLW</td>
</tr>
<tr>
<td>61 W 9424 and 9425</td>
<td>16 July 1961</td>
<td>09:02</td>
<td>1:20,000</td>
<td>1.2 feet</td>
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### TIDE (III) (Predicted)

<table>
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<th>REFERENCE STATION:</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Range Range</th>
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</thead>
<tbody>
<tr>
<td>Ketchikan, Alaska</td>
<td>13.0</td>
<td>15.4</td>
<td></td>
</tr>
<tr>
<td>SUBORDINATE STATION:</td>
<td>The Summit, Keku Strait</td>
<td>13.2</td>
<td>15.7</td>
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### PROOF EDIT BY (IV):

C. H. Bishop  
March 1973
<table>
<thead>
<tr>
<th>Compilation Record</th>
<th>Completion Date</th>
<th>Remarks</th>
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</thead>
<tbody>
<tr>
<td>Field Edit</td>
<td>June, 1970</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied</td>
<td>July, 1971</td>
<td>Superseded</td>
</tr>
<tr>
<td>Final Review</td>
<td>March 1973</td>
<td></td>
</tr>
</tbody>
</table>
SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12209

This 1:10,000 scale shoreline manuscript is one of 53 maps that comprise Project PH-6206, Keku Strait, Alaska. The project diagram indicates the location of T-12209 in the project.

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

Only the area north of 56°43'07.5" was compiled on T-12209. The area south of that latitude was compiled at 1:5,000 scale on T-12812. Compilation was by Wild B-8 Plotter and graphic methods, using panchromatic photographs taken in 1961 and color photographs taken in 1969. Control was based on a stereoplanimeter 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 1970. 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 March 1973.

The compilation manuscript was a virylite 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

There was no field inspection prior to compilation.
AEROTRIANGULATION REPORT
Keku Straits, Alaska
Job PH-6206

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 IBM 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 L0.1927 did not hold in the adjustment but closer investigation revealed that an apparent transposition of distances to the substitute stations had occurred. After re-computing 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]
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>DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 FL. = 364.000)</th>
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</thead>
<tbody>
<tr>
<td>HAY, 1927</td>
<td>G.P. Vol. 2 PG. 359</td>
<td>NA 1927</td>
<td>56° 42' 53.324&quot;</td>
<td>1649.4 (206.5)</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>133° 45' 21.423&quot;</td>
<td>364.4 (656.2)</td>
</tr>
<tr>
<td>NOR, 1927</td>
<td>G.P. Vol. 2 PG 359</td>
<td>NA 1927</td>
<td>56° 43' 47.021&quot;</td>
<td>1454.5 (401.4)</td>
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<td></td>
<td></td>
<td></td>
<td>133° 45' 27.720&quot;</td>
<td>471.4 (548.7)</td>
</tr>
</tbody>
</table>

COMPUTED BY: B. L. Barge   DATE: 11-29-67
CHECKED BY: L. O. Neterer, Jr.   DATE: 6-12-70
COMPILATION REPORT
T-12209

31. **DELINEATION**

There was no field inspection preceding compilation. Details were office interpreted and delineated by Wild B-8 plotter.

No compilation was done south of Lat. 56°43'07.5"; this area was mapped on Contemporary Survey T-12812 at 1:5,000 scale.

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 MHW line was delineated from office interpretation of photographs taken August 5, 1969.

Photographs of July 16, 1961, taken at 1.2 ft. stage of tide was used to delineate the MLLW line.

36. **OFFSHORE DETAIL**

Offshore detail was compiled from office interpretation of the photographs.

37. **LANDMARKS AND AIDS**

Copies of Form 76-40 have been forwarded to the appropriate divisions.
38. **CONTROL FOR FUTURE SURVEYS**

   None

39. **JUNCTIONS**

   Satisfactory junctions have been made with T-12205 to the North, T-12210 and T-12813 1:5,000 scale to the East, T-12815 1:5,000 scale to the south and T-12208 to the west.

40. **HORIZONTAL AND VERTICAL ACCURACY**

   No statement.

46. **COMPARISON WITH EXISTING MAPS**

   A comparison has been made with U.S.G.S. Quadrangle PETERSBURG (C-6) ALASKA, Scale 1:63,360, dated 1948 with minor revisions in 1963.

47. **COMPARISON WITH NAUTICAL CHARTS**


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

   None

**ITEMS TO BE CARRIED FORWARD**

   None

Submitted:

Lowell O. Neterer, Jr.
Cartographic Technician
June 12, 1970
Approved for forwarding:

Malvin J. Umbach, CDR, NOAA
Chief, Photogrammetry Division
Atlantic Marine Center

Approved:

Alfred C. Holmes, RADM, NOAA
Director, Atlantic Marine Center
GEOGRAPHIC NAMES
FINAL NAME SHEET
PH-6206 (Keku Strait, Alaska)
T-12209

Keku Strait
Kuiu Island
Rocky Pass

Approved by: 
A. J. Wright
Chief Geographer

Prepared by: 
Frank W. Pickett
Cartographic Technician
6.K. 4-4-72
49. NOTES FOR THE HYDROGRAPHER
None
# PHOTOGRAHMETRIC OFFICE REVIEW

## T. 12209

### 1. Projection and Grids
   - LLG

### 2. Title
   - LLG

### 3. Manuscript Numbers
   - LLG

### 4. Manuscript Size
   - LLG

### Control Stations

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

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### Cultural Features

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### Boundaries

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<th>32. Public Land Lines</th>
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### Miscellaneous

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<th>33. Geographic Names</th>
<th>34. Juncions</th>
<th>35. Legibility of the Manuscript</th>
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</thead>
<tbody>
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<table>
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<tr>
<th>40. Reviewer</th>
<th>41. Remarks (See attached sheet)</th>
<th>42. Field Completion Additions and Corrections to the Manuscript</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. L. Graves</td>
<td>June 19, 1970</td>
<td>Field edit applied from: Field Edit Czalid and Photo 61 W 9426.</td>
</tr>
</tbody>
</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.

### Compiler

<table>
<thead>
<tr>
<th>SUPERVISOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>L. O. Neterer, Jr.</td>
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</table>

### Remarks

43. Remarks

Field edit applied from: Field Edit Czalid and Photo 61 W 9426.
FIELD EDIT REPORT
Keku Strait
Southeast Alaska
OPR-448

June - October 1970

INTRODUCTION
Field edit reports are attached for the following maps:

T-12205  (TP-00205)
T-12206  (TP-00206)
T-12209  (TP-00209)
T-12210
T-12216
T-12220
T-12224
T-12225

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-10-4-70
DA-10-5-70
DA-10-6-70
DA-10-7-70

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

Notes have been made in red 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. Individual reports by manuscripts are attached.

TIDE NOTES

The following tide stations were used for hydrography in the Keku Strait area:

Pup Island
High Island
Eagle Island
Monte Carlo Island

Manuscripts T-12201 and T-12202 were inspected. Since no field edit was requested by the compilers the inspection was to check the manuscript in general. The manuscripts agreed quite well with the field inspection.
FIELD EDIT REPORT
MAP-T-12209
Southeast Alaska
North Keku Straits

The investigation was performed by LCdr. F.T. Smith from a small boat.

METHOD
The field edit ozalid and a field photograph were taken into the field and the items in question were visited. All inspections were by visual means. Information on items in question is given on the ozalid and cross referenced to photo 61W9426.

ADEQUACY OF COMPIlATION
The map compilation appears to be adequate.

RECOMMENDATIONS
It is recommended that the manuscript be corrected according to the notes on the ozalid and photograph and be accepted as an advance manuscript.

Respectfully submitted,

F.T. Smith
LCdr. NOAA
The field edit of the following manuscripts was accomplished under my supervision:

T-12205........TP-00205
T-12206........TP-00206
T-12209........TP-00207
T-12210
T-12216
T-12220
T-12224
T-12225

Inspection of the work was made.

Ray E. Moses
CDR. NOAA
Commanding Officer
NOAA Ship DAVIDSON
61. GENERAL STATEMENT

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

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with a copy of Survey No. 4341, 1:10,000 scale, dated September-October 1927. Significant differences between this survey and T-12209 are shown on the comparison print in blue. Survey No. 4341 is now obsolete for nautical chart construction purposes and the compared area is now superseded by T-12209.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS Quadrangle PETERSBURG (C-6), 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-9159, scale 1:10,000, dated 1970. Differences between this survey and T-12209 are shown in purple on the comparison print.

The reef at Lat. 56°43'05"-30", Long. 133°45'05"-30" was minimized on H-9159. This feature was compiled on T-12209 as it was inspected by the field editor on Photo 61 W 9426.

The small peninsula 200 meters southwest of Station NOR is mapped on T-12209 as it was inspected by the field editor.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8272, scale 1:20,000, 4th Edition, dated November 21, 1970. Shoreline differences between this chart and T-12209 were found to be approximately the same as shoreline differences between T-4341 and T-12209. These differences are shown in blue on the comparison print.
66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with project instructions and the National Standards for Map Accuracy.

Reviewed by:

Charles H. Bishop
Cartographer

Approved for forwarding:

Melvin J. Umilich, 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

Purple = H-9159
Red = Chart 8272
Blue = T-4341

Islets not on B.S.
Visible on UV-9424

T-12209
1:10,000

46°00'00"
45°30'00"
86°33'00"
133°45'00"