## DESCRIPTIVE REPORT

**Type of Survey**: SHORELINE (Photogrammetric)

**Field No.**

**Office No.**: T-12211

### LOCALITY

- **State**: ALASKA
- **General locality**: KELU STRAIT
- **Locality**: HEAD OF PORT CAMDEN

**1961-1970**

### CHIEF OF PARTY

Alfred C. Holmes  
Director, Atlantic Marine Center

### LIBRARY & ARCHIVES

**DATE**
MAP NOT INSPECTED IN QUALITY CONTROL PRIOR TO REGISTRATION
# Descriptive Report - Data Record

## Project Number:
PH-6206

## Field Office:
NONE

## Photogrammetric Office:
ATLANTIC MARINE CENTER, NORFOLK, VA.  
Alfred C. Holmes

## Instructions Dated:

<table>
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<th>Supplement Type</th>
<th>Date</th>
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<tr>
<td>Office supplement III</td>
<td>December 19, 1967</td>
</tr>
<tr>
<td>Office supplement 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>
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## Method of Compilation:
WILD B-8 STEREOPLOTTER

## Manuscript Scale:
1:10,000

## Stereoscopic Plotting Instrument Scale:
1:20,000 PANTOGRAPHED TO 1:10,000

## Date Received in Washington Office:

## Date Reported to Nautical Chart Branch:

## Date Registered:
Sept 4, 1925

## Geographic Datum:
N.A. 1927

## Vertical Datum:
MEAN HIGH WATER

## Reference Station:
NONE

## Plane Coordinates:

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<th>FT.</th>
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<tr>
<td></td>
<td>ALASKA</td>
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**Notes:**

- Roman 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.
**DESCRIPTIVE REPORT - DATA RECORD**

**T-12211**

**FIELD INSPECTION BY (III):**

NONE

**DATE:**

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

AIR PHOTO COMPILATION

**DATE OF PHOTOGRAPHY:** AUG. 24, 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):**

**A. SHANDS**

**DATE**: June 11, 1970

**CONTROL CHECKED BY (III):**

**F. MARGIOTTA**

**DATE**: June 11, 1970

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

**ROBERT E. FISHER**

**DATE**: Feb. 19, 1970

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

**PLANIMETRY**

A. Shands

Reviewed R. White

**CONTOURS:** INAPPLICABLE

**DATE**:

**MANUSCRIPT DELINEATED BY (III):**

**C. E. BLOOD**

**DATE**: June 26, 1970

**SCRIBING BY (III):**

**R. WHITE**

**DATE**: July 12, 1971

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

**F. P. MARGIOTTA**

**DATE**: June 29, 1970

**REMARKS:**
# DESCRIPITIVE REPORT - DATA RECORD

## T-12211

**MERA (KIND OR SOURCE) (III):**

WILD RC-8 "E"

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<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tbody>
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<td>69E(c)-1962 and 69E(c)-1963</td>
<td>24 Aug 1967</td>
<td>1411 PDST</td>
<td>1:40,000</td>
<td>9.6 ft. above MLLW</td>
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<tr>
<td>61W9508 &amp; 9509</td>
<td>16 July 1961</td>
<td>1015 PST</td>
<td>1:20,000</td>
<td>0.3 ft. below MLLW</td>
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**PREDICTED TIDE (III)**

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<th>REFERENCE STATION:</th>
<th>KETCHIKAN, ALASKA</th>
<th>RATIO OF RANGES</th>
<th>MEAN RANGE</th>
<th>SPRING RANGE</th>
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<tr>
<td>SUBORDINATE STATION:</td>
<td>PORT CAMDEN</td>
<td>13.0</td>
<td>15.4</td>
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<td>11.5</td>
<td>13.9</td>
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**WASHINGTON OFFICE REVIEW BY (IV):** Leo F. Beugnet, AMC

**PROOF EDIT BY (IV):**

**DATE:** May, 1972

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (II):** NONE

**NUMBER OF BM(S) SEARCHED FOR (III):** NONE

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):** NONE

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

**REMARKS:**

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USCOMM-DC 35993C-P55
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<tr>
<td>COMPILATION COMPLETE, PENDING FIELD EDIT</td>
<td>June 26, 1970</td>
<td>Superseded</td>
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<td>FIELD EDIT APPLIED</td>
<td>June 29, 1970</td>
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<tr>
<td>Final Review</td>
<td>May, 1972</td>
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SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12211

Shoreline survey T-12211 is one of 53 similar surveys in project PH-6206. The primary purpose of the survey was to provide modern shoreline for nautical charts and photo-hydro support data for hydrographic surveys to be made in the Keku Strait area. Because of difficulty during aero-triangulation, the compilation of the manuscript was delayed and it was not furnished for hydrographic support use.

There was no field work prior to compilation with the exception of identification of horizontal control for aero-triangulation. The survey was subsequently field edited during the 1970 field season.

Compilation was at 1:10,000 scale by Wild B-8 plotter methods using the photography of August 1969. The manuscript was a vinylite sheet 3 minutes 45 seconds in latitude by 5 minutes in longitude. After application of field edit data the survey was scribed and reproduced on cronaflex. Final review was in the Atlantic Marine Center in May 1972. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT

JOB PH-6206

T-12211

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
Compilation Report

T-12211

31. **DELINEATION**

   The Wild B-8 Stereoplotter was used to compile the mean high water line from the 1:40,000 scale color photography of August, 1969. Points common to the 1:20,000 scale panchromatic photography were dropped for use in the graphic compilation of detail below the mean high water line. There was no field inspection.

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 mean high water line and all alongshore details were compiled from office interpretation of the photographs. See item # 31.

36. **OFFSHORE DETAILS**

   None

37. **LANDMARKS AND AIDS**

   None
38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

There was no contemporary survey to the north, west, or south. Junction was made with T-12212 to the east.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with U.S.G.S. quadrangle Port Alexander (C-1), Alaska, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison has been made with Chart 8201, scale 1:217,828, 15th edition, dated Nov.15, 1969 (corrected through N.M. 46/69).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None.

Submitted:

Frank P. Margiotta
Cartographic Technician
June 29, 1970
Approved for forwarding:

Melvin 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-12211

Kuiu Island
Port Camden

Approved by: A. J. Wright
A. Joseph Wright
Chief Geographer

Prepared by: [Signature]
Frank W. Pickett
Cartographic Technician
O.K. 4-4-72
49. NOTES FOR THE HYDROGRAPHER

None
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<th>1. PROJECTION AND GRIDS</th>
<th>2. TITLE</th>
<th>3. MANUSCRIPT NUMBERS</th>
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**CONTROL STATIONS**

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<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>
<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAMMETRIC 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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<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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**PHYSICAL FEATURES**

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<tr>
<th>20. WATER FEATURES</th>
<th>21. NATURAL GROUND COVER</th>
<th>22. PLANETARY CONTOURS</th>
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<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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**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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**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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<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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<tr>
<th>40. REVIEWER</th>
<th>41. REMARKS (see attached sheet)</th>
<th>42. FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT</th>
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**COMPILER**

C. E. Blood  June 30, 1971

**SUPERVISOR**

Field Edit applied from: Field Edit Ozalid and Field Photo 69 E 1963
INTRODUCTION
Field edit reports are attached for the following maps:

T-12203
T-12204
T-12207
T-12208
T-12211
T-12212

Field photographs and copies of the field edit ozalid were taken into the field. The mean high water line was verified by visual inspection of the shoreline and ozalids in the field and paced distances from photo-identifiable objects.

Notes have been made in red-violet ink on the photographs and cross-referenced with the ozalids. All times are based on 105° W meridian.

Field inspection of these maps is completed and it is recommended that they be revised in accordance with this field edit and accepted as advance manuscripts.
FIELD EDIT REPORT
MAP-T-12211
Southeast Alaska
Head Of Port Camden

This field edit was performed by LCdr. F.T. Smith on foot and from a small boat.

METHOD
The field edit ozalid and field photographs were taken into the field and the specific items were inspected. All verifications were by visual observations. The MHW line was checked by pacing from photo identifiable objects where possible or where it appeared to be in error. There were no aides to navigation or landmarks on this map. Notes have been made on the field edit ozalid and cross referenced to the photograph 69E1963ALL. All times are on the 105° W meridian. The manuscript was compared to the hydrography that was run in 1969 in this area.

ADEQUACY OF COMPILATION
The compilation of the map appears to be adequate.

RECOMMENDATIONS
It is recommended that this manuscript be revised in accordance with the notes on the ozalid and photographs and map 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-12203  
T-12204  
T-12207  
T-12208  
T-12211  
T-12212

Inspection of the work was made.

Ray E. Moses  
CDR, NOAA  
Commanding Officer  
NOAA Ship DAVIDSON
REVIEW REPORT T-12211

SHORELINE

May 1, 1972

61. GENERAL STATEMENT

See Summary, which is page 6 of the descriptive report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A visual comparison was made with a copy of registered survey No. 2116. This is a 1:80,000 scale survey made in 1893. It is now obsolete and is superseded by T-12211 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

Comparison was made with U.S.G.S. PORT ALEXANDER (C-1), ALASKA, 1:63,360 scale quadrangle, edition of 1948. The two surveys were found to be in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with a copy of boat sheet H-9083 (DA-10-5-69). There is no shoreline, ledges or rocks on the boat sheet in the area common with T-12211. The mean lower low water lines of the two surveys is not in perfect agreement, however that line has been retained on T-12211, annotated approximate, for any value it may be to the nautical chart compiler.

65. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with chart 8201, 16th edition, dated November 7, 1970. No major discrepancies between the two surveys were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This survey complies with instructions and meets the National Standards of Map Accuracy.
Reviewed by:
Leo F. Beugnet
Cartographer

Approved for forwarding:

Melvin J. Umback, CDR, NOAA
Chief, Photogrammetry Division, AMC

Approved:

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

Approved:

Chief, Photogrammetric Branch    Chief, Coastal Mapping Division