12207

FORM C&GS-504
U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey SHORELINE (PHOTGRAMMETRIC)
Field No. Office No. T-12207

LOCALITY
State ALASKA
General locality KEKI STRAIT
Locality CRANE CREEK

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

**T - 12207**

**PROJECT NO. (i):**

- PH-6206

**FIELD OFFICE (ii):**

- NONE

**PHOTOGRAHMETRIC OFFICE (iii):**

- ATLANTIC MARINE CENTER, NORFOLK, VA.

**CHIEF OF PARTY**

- Alfred C. Holmes, Director

**INSTRUCTIONS DATED (ii) (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

**MANUSCRIPT SCALE (iii):**

- 1:10,000

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

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

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

- [Date]

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

- [Date]

**APPLIED TO CHART NO.:**

- [Chart Number]

**DATE REGISTERED (iv):**

- [Date]

**GEOGRAPHIC DATUM (iii):**

- NA 1927

**REFERENCE STATION (iii):**

- CRANE, 1968

**LAT.:**

- $56^\circ 43' 14.9189''$

**LONG.:**

- $133^\circ 56' 21.1640''$

**ADJUSTED**

- [X]

**UNADJUSTED**

- [ ]

**STATE:**

- ALASKA

**ZONE:**

- 1

---

**ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (i) 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**

### Mean High Water Location (III) (State Date and Method of Location):**
- **AIR PHOTO COMPILATION**
- **DATED:** August 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**
  - Reviewed R. White
- **DATE:**
  - June 23, 1970

### Manuscript Delineated by (III):
- **A. L. Shands**
  - **DATE:** June 26, 1970

### Scribing by (III):
- **R. White**
  - **DATE:** July 14, 1971

### Photogrammetric Office Review by (III):
- **L. L. Graves**
  - **DATE:** July 16, 1970

### Remarks:
- **FIELD EDIT BY:** LMG TAGUCHI
**PHOTOGRAPHS (III)**

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<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td>69 E(c)-1960 &amp; 69 E(c)-1961</td>
<td>24 Aug. 1969</td>
<td>1311 PST</td>
<td>1:40,000</td>
<td>9.6 ft. above MLLW</td>
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<td>61 W 9588 through 61 W 9591</td>
<td>16 July 1961</td>
<td>1108 PST</td>
<td>1:20,000</td>
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**PREDICTED TIDE (III)**

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<th>REFERENCE STATION:</th>
<th>KETCHikan, ALASKA</th>
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<tr>
<td>ORDIvinate STATION:</td>
<td>Port Camden, Kuito Island, Alaska</td>
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<tr>
<td>SUBORDINATE STATION:</td>
<td></td>
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**WASHINGTON OFFICE REVIEW BY (IV):** Leo F. Beugnet, AMC  
**DATE:** April 1972

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):** 3  
**RECOVERED:** 3  
**IDENTIFIED:** NONE

**NUMBER OF BM(S) SEARCHED FOR (III):** NONE  
**RECOVERED:** NONE  
**IDENTIFIED:** 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>
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<tr>
<td>Compilation Complete, Pending Field Edit</td>
<td>June, 1970</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit Applied</td>
<td>June 1, 1971</td>
<td></td>
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<tr>
<td>Final Review</td>
<td>April 1972</td>
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SHORELINE MAPPING PROJECT
Ph-6206
KEKU STRAITS, ALASKA
SCALE 1:10,000

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

DESCRIPTIVE REPORT T-12207

Shoreline survey T-12207 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 in the Keku Strait area. Because of difficulty during Aerotriangulation the compilation of the manuscript was delayed and it was not furnished for hydro support.

There was no field work prior to compilation with the exception of identification of horizontal control for aerotriangulation. 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 July 1961 and 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 April 1972. One cronaflex positive and a negative of the final reviewed survey are forwarded for record and registry.
FIELD INSPECTION REPORT

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 = 304.8006 meter)</th>
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<tr>
<td>Dove, 1969</td>
<td>&quot; &quot; &quot;</td>
<td>&quot; &quot; &quot;</td>
<td>56°43'32.6299&quot;</td>
<td>133°55'50.6075&quot;</td>
<td>1009.31 (846.63)</td>
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<td>Peg, 1969</td>
<td>&quot; &quot; &quot;</td>
<td>&quot; &quot; &quot;</td>
<td>56°41'40.3508&quot;</td>
<td>133°56'45.6736&quot;</td>
<td>860.63 (159.77)</td>
</tr>
<tr>
<td>Mary, 1969</td>
<td>&quot; &quot; &quot;</td>
<td>N.A. 1927</td>
<td>56°41'22.7275&quot;</td>
<td>133°56'06.6643&quot;</td>
<td>1248.13 (607.80)</td>
</tr>
</tbody>
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COMPUTED BY: Frank P. Margiotta  
DATE: June 30, 1971  
CHECKED BY: T.J. Bulfer  
DATE: June 30, 1971
PH-6206
Compilation Report
T-12207

31. **DELINEATION**

The Wild B-8 was used to delineate the mean high water line from the 1:40,000 scale color photography of August 1969. All detail below the mean high water line was compiled graphically from the 1:20,000 scale panchromatic photography of July, 1961.

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 all alongshore area details were compiled from office interpretation of the photographs without benefit of prior field inspection. The field editor has been asked to verify all such detail.

36. **OFFSHORE DETAILS**

Several islands and rocks were located offshore during instrument compilation. No difficulty was encountered in locating and delineating these features. See item # 31.
37. **LANDMARKS AND AIDS**

   None

38. **CONTROL FOR FUTURE SURVEYS**

   None

39. **JUNCTIONS**

   Junctions are in agreement with T-12203, to the north T-12212 to the south and T-12208 to the east. There is no contemporary survey 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**

   A comparison was made with Chart 8201, scale 1:217,828, 15 edition dated November 15, 1969.

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

   None

**ITEMS TO BE CARRIED FORWARD**

   None
Submitted by:
A. L. Shands

A. L. Shands
Cartographer
7/1/70

Approved for forwarding:

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

Approved:

Alfred C. Holmes
RADM, NOAA
Director, AMC
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6206 (Keku Strait, Alaska)

T-12207

Cam Island

Crane Creek

Kuiu Island

Port Camden

Approved by:

A. J. WRIGHT

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett

Cartographic Technician

O.K. 4-4-72
<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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<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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<th>8. BENCH MARKS</th>
<th>9. PLOTTING OF SEXTANT FIXES</th>
<th>10. PHOTOGRAHMATIC 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. PLANETABLE 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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<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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<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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<th>40. REVIEWER</th>
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<tbody>
<tr>
<td>L.L. Graves</td>
<td>7-16-70</td>
</tr>
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**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.

**COMPILED BY**

F.P. Margiotta June 30, 1971

**SUPERVISOR**

SUPERVISOR

**REMARKS**

Field Edit applied from: Field Edit Ozalid, Field Photos 69 E 1960, 61 W 9589 through 9591
FIELD EDIT REPORT
OPR-448
Port Camden
Southeast Alaska

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-12207
Port Camden
OPR-448

The investigation was done by Lt(jg) Taguchi. Field work was done from a 17' boston whaler.

METHOD
Field photographs and a copy of the field edit ozalid were taken into the field. All verification was done by visual observation. The specific items of question, as listed on the ozalid were visited for verification. The MHWL was determined by pacing from a photo-identifiable object.

Notes have been made in violet on the field photographs and crossed referenced in the field edit ozalid by circling the photographic number. Notes on the ozalid have been made in blue. Notes are on the following photographs:

- 61 W 9590
- 61 W 9589
- 61 W 9591
- 69 E 1960

The 1961 photograph proved to be superior than the larger 1969 photo because of its size and sharper representation of the working area. The larger photo was very difficult to work with out in the field from an open boat; especially when a rainy day was a typical working day in Southeast Alaska. The 1969 photo also covered too much area creating a problem of some areas not being covered adequately in a sharp clear zone. Also it was near impossible to use the pocket steroscope on the larger photographs.

ADEQUACY OF COMPILATION
The compilation of the map is good.

RECOMMENDATIONS
It is recommended that this manuscript be revised in accordance with the notes on the ozalid and photographs and that the 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
CPO, NOAA
Commanding Officer
NOAA Ship DAVIDSON
REVIEW REPORT T-12207

SHORELINE

April 25, 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 registered survey No. 2116. This is a 1:80,000 scale survey made in 1893. It is now obsolete and is superseded by T-12207 for nautical chart construction purposes.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

Comparison was made with USGS PETERSBURG (C-6), ALASKA, 1:63,360 scale quadrangle, edition of 1948. The surveys were found to be in good general agreement.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Comparison was made with copies of boat sheets H-9082 (DA-10-4-69) and H-9083 (DA-10-5-69). The hydrography on these surveys was accomplished prior to the compilation of shoreline surveys in this area. No mean high water line, ledges or foul areas are shown on the boat sheets and only a few rocks are plotted.

The mean lower low water line of the surveys is in only fair agreement. This line has been indicated as approximate on T-12207 and retained for any value it may be to the nautical chart compiler.

Special attention is called to two rocks near latitude 56°04'11.2", longitude 133°25'6.97". These rocks, located by the field editor are not shown on the boat sheet.

65. COMPARISON WITH NAUTICAL CHARTS

A visual 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. Irvin, CDR, NOAA
Chief, Photogrammetry Division, AMC

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

Approved:
Chief, Photogrammetric Branch  Chief, Coastal Mapping Division