<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Job No.</td>
<td>PH-6301</td>
</tr>
<tr>
<td>Map No.</td>
<td>T-13281</td>
</tr>
<tr>
<td>Classification No.</td>
<td>Final</td>
</tr>
<tr>
<td>Edition No.</td>
<td>1</td>
</tr>
<tr>
<td>Field Edited Map</td>
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</table>

### LOCALITY

- State: Alaska
- General Locality: Kamishak Bay
- Locality: McNeil Cove, McNeil Islet

1962 TO 1968

### REGISTRY IN ARCHIVES

DATE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1974-762-901
DESCRIPTIVE REPORT - DATA RECORD
T -13281

ACT NO. (III):
PH-6301

FIELD OFFICE (III):
None

CHIEF OF PARTY

PHOTOGRAMMETRIC OFFICE (III):
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
J. Bull, Director

INSTRUCTIONS DATED (III) (IV):
Office March 18, 1965
Office, Supplement I - February 10, 1966
Office, Supplement II - May 5, 1967
Office, Supplement III - December 27, 1967
Office, Supplement IV - April 2, 1968
Office, Supplement V - April 9, 1968

METHOD OF COMPILATION (III):
Graphic

MANUSCRIPT SCALE (III):
1/0,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:

DATE REGISTERED (IV):

GEOGRAPHIC DATUM (III):
N.A. 1927

VERTICAL DATUM (III): high water

MEAN REFERRED EXCEPT AS FOLLOWS:
Elevations shown as (25) refer to mean high water
Elevations shown as (3) refer to sounding datum
i.e., mean lower low water

REFERENCE STATION (III):
McNeil, 1946

LAT: 59°06'03.724" (115.2M)  ORDER:  154°12'01.034" (16.5M)  (X)

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):
863,435.43 ft.  X = 462,345.52 ft.

STATE
Alaska

ZONE
5

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.

USCGC-DC 3639/A.746
### Descriptive Report - Data Record

**T-13281**

**Field Inspection by (III):**
None

**Mean High Water Location (III) [State date and method of location]:**
Air photo compilation - June 18, 1962 date of photography

**Projection and Grids Ruled by (IV):**
- A. Bethea
  - Date: 4/16/68

**Projection and Grids Checked by (IV):**
- L.F. VanScoy
  - Date: 4/17/68

**Control Plotted by (III):**
- J. Steinberg
  - Date: 4/19/68

**Control Checked by (III):**
- M. Serena
  - Date: 4/19/68

**Radial Plot or Stereoscopic Control Extension by (III):**
- G.M. Ball (for 1:20,000 compilation) T-12337
  - Date: May 1966

**Stereoscopic Instrument Compilation (III):**
- Planimetry
  - A.L. Shands
    - Date: 5/1/68

**Manuscript Delineated by (III):**
- L.L. Graves
  - Date: 5/2/68

**Scribing by (III):**

**Photogrammetric Office Review by (III):**
- C.H. Bishop
  - Date: 11/19/68

**Remarks:**
Field edit by W.R. Cameron, June-July 1968
### 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>62W6617</td>
<td>6/18/62</td>
<td>1700</td>
<td>1:30,000</td>
<td>13.8' above MLLW</td>
</tr>
</tbody>
</table>

### Predicted Tide (III)

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Seldovia, Kachemak Bay, Alaska</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>H=0.81 L=0.87</td>
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</tbody>
</table>

### Subordinate Station:

| Iliamna Bay, Alaska |

### Washington Office Review by (IV):

- J.B. Phillips
  - Date: April 1976

### Number of Triangulation Stations Searched For (III):

- Recovered: 0
- Identified: 0

### Number of BM(s) Searched For (III):

- Recovered: 0
- Identified: 0

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

- 0

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

- 0

### Remarks:

- *"M"* photography at 1:50,000 scale used for compilation of T-12337
JOB PH-6301 (PART-1)

COOK INLET, ALASKA

SHORELINE MAPPING

Scale 1:10,000 & 1:20,000

Revised 4-3-68 LK.
SUMMARY

T-13281 is one of 40 shoreline maps comprising Job PH-6301 (Part I) compiled for use in contemporary hydrographic survey and nautical charting operations.

Field work, prior to compilation, consisted of the recovery and identification of horizontal control.

Compilation was by Wild B-8 stereoplotter, using 1:30,000 scale color photography. Cronaflex positives and ozalids of the manuscript were forwarded for the use of the field editor and the preparation of the hydrographer's boat sheets. Accompanying these were specially prepared ratio photographs to aid in the location of hydrographic signals.

Final edit was accomplished during 1968.

Final review was accomplished at the Rockville Office in April, 1976.

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.
<table>
<thead>
<tr>
<th>Compilation record</th>
<th>Completion date</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pending field edit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alongshore area for hydro</td>
<td>5/2/68</td>
<td>Superseded</td>
</tr>
<tr>
<td>Partial Field Edit Applied</td>
<td>9/68</td>
<td></td>
</tr>
<tr>
<td>Remainder of Field Edit applied, compilation complete</td>
<td>11/68</td>
<td></td>
</tr>
</tbody>
</table>
FIELD INSPECTION

Data - 1328

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aero triangulation of the project.
PHOTOGRAMMETRIC PLOT REPORT
Kamishak Bay, Alaska
Job PH-6301
May 1966

21. Area Covered

This report covers an area of Alaska, in the western portion of Kamishak Bay to be mapped on five T-sheets (T-12334, T-12336, T-12337, T-12338 and T-12339).

22. Method

Analytic aerotriangulation methods were used to bridge one strip of "M" photography at the scale of 1:50,000. The attached sketch shows the placement of and closure to the triangulation points used in the final adjustment. Due to the excessive forward overlap in the strip, numerous photographs were omitted from the bridge.

23. Adequacy of Control

Horizontal control identified and required to adjust this strip was adequate. Neither CHENIK SS-A, which could not be positively identified, nor KAMAK SS-A, which was not visible, were used in the final adjustment. The results of the bridge, which is void of common tie points, should comply to the National Standards of Map Accuracy for these five shoreline manuscripts.

24. Supplemental Data

Numerous U.S.G.S. quads were used to obtain elevations required for the final horizontal and vertical adjustment.

25. Photography

Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

[A signature]

Approved by:

[A signature]

Henry P. Eichert, Acting Chief
Aerotriangulation Section
PH-6301
Alaska
Cook Inlet
Kamishak Bay
Shoreline Mapping

1-Δ Pink, 1964
2-Δ Paint, 1964
3-Δ Chenik, 1964
4-Δ Kamak, 1946

Closure to Control

Pink
SS A: (0.5) (-0.2)
SS B: (0.4) (0.0)

Paint
SS A: (-1.4) (0.6)
SS B: (0.6) (-1.5)

Chenik
SS A: Point could not be positively identified
SS B: (1.3) (-1.0)

Kamak
SS A: Point was not visible
SS B: (-0.2) (0.1)
31. **Delineation**

The shoreline and planimetry was delineated graphically by the use of 1962W, ratio photography. Refer to page // for additional comments.

32. **Control**

See Photogrammetric Plot Report for 1:20,000 manuscript of this area.

Shoreline passpoints on the 1:20,000 manuscript of this area were scaled and plotted on this manuscript in addition of the use of bridging control. Shoreline passpoints used on the 1:20,000 ratio photography were re-established on the 1:10,000 ratioed photographs used for the compilation of this manuscript.

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**

Numerous rocks, ledge, and shallow areas were delineated from office interpretation of the photographs. No low water line was shown.

36. **Offshore Details**

Two small islands, ledges, shallow areas, and offshore rocks, were compiled from 1:30,000 scale color photographs with the use of a vertical projector.

Reefs, shallow areas, and rocks northeast of McNeil Islet were compiled by the same method, using 1:15,000 scale panchromatic photography. These positions are labeled approximate.

37. **Landmarks and Aids** - None

38. **Control for Future Surveys** - None

39. **Junctions**

Junctions are in agreement with T-13279 (scale 1:10,000) and T-12337 (1:20,000) to the north, T-12337 (1:20,000) to the east, T-13283 (1:10,000) and T-12339 (1:20,000) to the south, T-13280 (1:10,000) and T-12336 (1:20,000) to the west.
NOTES FOR REPORTS FOR THE FOLLOWING T-SHEETS COVERING
MC NEIL COVE AND BRAWIN BAY:

T-13271 through T-13283

PLEASE USE THIS NOTE FOR EACH REPORT UNDER ITEM #31 Delineation.

The area of this manuscript was previously compiled at 1:20,000 scale under one of the following manuscripts: T-12329, T-12330, T-12334, T-12335, T-12336, T-12337, T-12338 or T-12339, using 1962 and 1967 "M" photography at 1:50,000 scale, June 18, 1962 and 1:60,000 scale, July 9, 1967, respectively.

Other "M" photography taken in 1962, also dated June 18, cover these areas. These were used to supplement the shoreline delineation of the "M" photos, especially in areas of shoreline layover.

The new or more recent re-compilation of this sheet at 1:10,000 scale was accomplished in the following manner:

1. Shoreline passpoints from the 1:20,000 compilations were scaled on the coordinatograph and recorded.

2. The same passpoints were re-plotted on the 1:10,000 projection sheets.

3. Roadcut positions of bridge passpoints for the 1:20,000 sheets were also plotted on the 1:10,000 scale sheets.

4. The entire shoreline was graphically delineated, then edited and revised, if necessary, through the use of the processed 1962 "M" ratio prints. Areas where these revisions were deemed necessary will be reduced with the vertical projector and corrected on the 1:20,000 manuscripts.

The remaining alternative for the compilation of these 1:10,000 scale sheets, would be by the ratio of 5X and 6X of the 1962 and 1967 "M" photos. Inasmuch as these ratios would far exceed the 3X ratios of cutaway photos, and the vertical projector ratio of 2X, and essence of meeting the June 15, 1968 ship schedule, it was decided that the method used was the most expedient and accurate.

WAS DISCUSSED WITH THE ROCKVILLE, MD. PHOTO OFFICE WHO CONCURRED
40. **Horizontal and Vertical Accuracy** - No statement

41. thru 45. Inapplicable

46. **Comparison with Existing Maps**


47. **Comparison with Nautical Charts**

A comparison was made with Nautical Chart 8554 (Cook Inlet, Southern Part) scale 1:200,000, 9th edition, dated May 10, 1965.

**Items to be Applied to Nautical Charts Immediately:** None

**Items to be Carried Forward:** - None

Submitted by,

L.L. Graves  
Carto Tech:  
May 1968

Approved and forwarded:

J. Bull  
Director  
Atlantic Marine Center
49. NOTES FOR THE HYDROGRAPHER AND/OR THE FIELD EDITOR

It has been considered good practice to delineate upon the manuscript all shoal and shallow areas which might be considered as a danger to navigation to the Hydrographer. The use of color photography often intensifies these features so that, that which is delineated as a shoal or shallow, might be only a bottom change, or a change in marine vegetation. These shoal or shallow lines should be verified, or deleted if they do not exist.

The process of bringing a manuscript from "Incomplete" to Advance necessitates a complete application of field or hydro edit. This "Advance" copy is required in order to furnish a "smooth shoreline" for boat sheets and/or the processing of hydro sounding data. If extraneous information is not deleted from our "field edit ozalid" by the field and/or hydro editor, it can inadvertently be carried forward to the "Advance" copy and eventually become a detriment to the hydro processor.

Your cooperation in applying all of your edit corrections, deletions, explanatory notes, fix information, dangers or aids, or other items to be delineated on the manuscripts directly to the ozalid copies and/or field (matte) photos, will greatly facilitate the complete conclusion of an "Advance" copy. Your return of this information to the compilation office from whence it originated, will do much to alleviate the problem of keeping all edit material together for more complete application.

Items of questionable nature, requiring your attention, which are not noted hereon, will be found on the accompanying "field edit ozalid".
FIELD EDIT REPORT
SHEET T-13281
McNEIL ISLET
PH-6301
JULY 1968

USCG&SS PATHFINDER
CDR A. C. HOLMES, CMDG
51 Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, Ship PATHFINDER, dated April 3, 1968.

All deletions, additions, and corrections to be applied to the manuscript appear on the Field Edit Ozalid. This ozalid is an index and inventory of all field edit work performed. General notes on the ozalid are in violet ink. Features marked in green are to be deleted. Red circles show the approximate location of hydrographic signals used in the field edit.

No field ratio prints are a part of the field edit data for this sheet.

52 Adequacy of Compilation

Compilation of the manuscript was adequate and complete considering there was no field inspection of the area prior to compilation.

54 Recommendations

None.

56 Additional Information

Alaska Daylight Time, time meridian 135 W, was used for the entire survey.

Hydrographic signal positions used in fixes on rocks, reefs, etc. are listed on a sheet attached to the Field Edit Ozalid. Signals are listed by number rather than name to conform with the requirements of electronic data processing.

The MEWL was visually verified and found to be correct as compiled. No measurements were necessary.

The features marked position approximate were delineated by three-point sextant fixes and were found to be slightly out of position on the manuscript. The poor compilation was probably due to the lack of adequate photography, especially low-water coverage, of the area.

William R. Cameron
LTJG-USEssa
Photo Officer

Approved:

A. C. Holmes
CDR-USEssa
Commanding Officer
**PHOTOGRAMMETRIC OFFICE REVIEW**

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<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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**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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<th>6. 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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<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>32. PUBLIC LAND LINES</th>
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**MISCELLANEOUS**

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<th>34. JUNCTIONS</th>
<th>35. LEGIBILITY OF THE MANUSCRIPT</th>
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<th>36. DISCREPANCY OVERLAY</th>
<th>37. DESCRIPTIVE REPORT</th>
<th>38. FIELD INSPECTION PHOTOGRAPHS</th>
<th>39. FORMS</th>
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<table>
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<th>40. REVIEWER</th>
</tr>
</thead>
<tbody>
<tr>
<td>C.H. Bishop</td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

**REMARKS**

Field Edit applied from: Field Edit ozalid, T-13281 and enlargement of T-12337.
61. **General Statement**

Refer to item 31 in the compilation report for an explanation of the methods used to compile this map. This same area was compiled at 1:20,000 scale on T-12337. To avoid repetition, the 1:10,000 scale map will be the only one reviewed.

62. **Comparison with Registered Topographic Surveys** - None

63. **Comparison with Maps of Other Agencies** - Refer to item 46 of theCompilation Report.

64. **Comparison with Contemporary Hydrographic Surveys**

H-9014 1:10,000 1968
H-9001 1:20,000 1968-1970

Comparison was made with the final reviewed hydrographic surveys. The outer ledge limits were removed from the Class I manuscript where they conflicted with the hydrographer's soundings and depth curves. There are differences in rock elevations due to the hydrographer's use of actual tide readings.

65. **Comparison with Nautical Charts**


66. **Adequacy of Results and Future Surveys**

This map meets the standards of map accuracy and complies with Bureau requirements.

Submitted by,

J.B. Phillips

Approved

Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
48. **GEOGRAPHIC NAME LIST**

AMAKDEDULIA COVE
KAMISHAK BAY
McNEIL ISLET