NOAA FORM 76-35
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Type of Survey  Shoreline (Photogrammetric)  PH-6301  Map No. T-12318

Classification No. Final Edition No. L
Field Edited Map

LOCALITY

State  Alaska
General Locality  Kamishak Bay, Cook Inlet

Locality

1962 TO 1973

REGISTRY IN ARCHIVES

DATE

© U.S. GOVERNMENT PRINTING OFFICE: 1973-761-778
PROJECT NO. (III):
Ph-5301

FIELD OFFICE (III):
None

PHOTOMETRY ORGANIZATION (III):
Atlantic Marine Center, Norfolk, Virginia

CHIEF OF PARTY

OFFICER-IN-CHARGE
J. Bull, Director

INSTRUCTIONS DATED (III) (IV):
March 18, 1965 - Office, Part I
Feb. 10, 1966 - Office, Supplement I
May 5, 1967 - Office, Supplement II
Dec. 27, 1967 - Office, Supplement III

METHOD OF COMPILED (III):
Wild B-8 plotter

MANUSCRIPT SCALE (III):
1:20,000

STEREOSCOPIC PLOTTING INSTRUMENT SCALE (III):
1:10,000 pantographed to 1:20,000

DATE RECEIVED IN WASHINGTON OFFICE (IV):

DATE REPORTED TO NAUTICAL CHART BRANCH (IV):

APPLIED TO CHART NO.

DATE:
MAY 1976

DATE REGISTERED (IV):
R. C. ATDK

GEOGRAPHIC DATUM (III):
N.A. 1927

VERTICAL DATUM (III):

MEASUREMENTS EXCEPT AS FOLLOWS:
Elevations shown as (f) refer to mean high water
Elevations shown as (L) refer to sounding datum
I.e., (f) mean lower low water

REFERENCE STATION (III):
ISLE, 1913

LAT.: 59°38'22.349" N 691.6M
LONG.: 153°26'07.754" W 121.5M

ADJUSTED

UNADJUSTED

PLANE COORDINATES (IV):

Y = 2,060,625.85 ft.

X = 604,460.55 ft.

STATE
Alaska

ZONE
5

IN NAL NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (I) FIELD PARTY, (II) PHOTOGRAPHIC 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 - 12318**

#### FIELD INSPECTION BY (III):
None

#### MEAN HIGH WATER LOCATION (III) (STATE DATE AND METHOD OF LOCATION):
Office interpretation of photography listed in the Data Record 181c

#### PROJECTION AND GRIDS RULED BY (IV):
- **A. Bethea**
  - **Date:** 2/19/68

#### PROJECTION AND GRIDS CHECKED BY (IV):
- **L.F. VanScoy**
  - **Date:** 2/27/68

#### CONTROL PLOTTED BY (III):
- **J. Steinberg**
  - **Date:** 3/1/68

#### CONTROL CHECKED BY (III):
- **F. Wilson**
  - **Date:** 3/1/68

#### RADIAL PLOT OR STEREOSCOPIC CONTROL EXTENSION BY (III):
- **P.J. Dempsey**
  - **Date:** 1/22/68

#### STEREOSCOPIC INSTRUMENT COMPILATION (III):
- **A.L. Shands**
  - **Date:** 7/21/68
- **Contours**
  - **Inapplicable**

#### MANUSCRIPT DELINEATED BY (III):
- **A.L. Shands**
  - **Date:** 7/28/68

#### SCRIBING BY (III):

#### PHOTOGRAMMETRIC OFFICE REVIEW BY (III):
- **R: J. P.**

#### REMARKS:
Field edited by Alan Potok, William Wert, and John Murphy during July 1973
### Descriptive Report - Data Record

**T - 12318**

**Camera (Kind or Source) (III):**
- Wild RC-8 "W"
- Wild RC-9 "M"

#### 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>67M873 thru 875</td>
<td>7/9/67</td>
<td>0939</td>
<td>1:60,000</td>
<td>-1.9 ft. MLLW</td>
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<tr>
<td>62W 6930 - 6942</td>
<td>7/21/62</td>
<td>1358</td>
<td>1:15,000</td>
<td>9.4 ft. above MLLW</td>
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**Predicted Tide (III)**

<table>
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<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
<tbody>
<tr>
<td>Reference Station: Seldovia, Kachemak Bay, Alaska</td>
<td>15.4</td>
<td>17.8</td>
</tr>
<tr>
<td>Subordinate Station: Iliamna Bay, Alaska</td>
<td>12.3</td>
<td>14.5</td>
</tr>
</tbody>
</table>

**Washington Office Review by (IV):** J.B. Phillips

Date: February 1976

**Number of Triangulation Stations Searched For (II):** None

**Number of BM(s) Searched For (II):** None

**Number of Recoverable Photo Stations Established (III):** None

**Number of Temporary Photo Hydro Stations Established (III):** None

**Remarks:**
SUMMARY

T-12318 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 stereoplotters, 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 July 1973.

Final review was accomplished at the Rockville Office in February 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>
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<tbody>
<tr>
<td>Compilation complete pending field edit</td>
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<td></td>
</tr>
<tr>
<td>Alongshore area for hydro</td>
<td>July 1968</td>
<td>Superseded</td>
</tr>
<tr>
<td>Field Edit applied, Compilation Complete</td>
<td>March 1974</td>
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</tr>
</tbody>
</table>
FIELD INSPECTION

TP-12318

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 aerotriangulation of the project.
PHOTOGRAMMETRIC PLOT REPORT
Job PH-6301
Kamishak Bay, Alaska

January 22, 1968

21. **Area Covered**

This report covers the northern part of Kamishak Bay, Alaska, consisting of thirteen (13) 1:20,000 scale map manuscripts -- T-12315 thru T-12319; T-12326 thru T-12331, T-12334 and T-12335; and six (6) 1:10,000 scale map manuscripts -- T-12320 thru T-12325.

22. **Method**

Analytic aerotriangulation methods were used to bridge strips 1, 2 and 3 at 1:60,000 scale using premarked and field identified control. Numerous tie points were located to control strips 41, 42 and 43, which were bridged by stereoplanigraph.

The attached sketch of strips bridged shows the placement of triangulation used in the final strip adjustments. Closures to control are shown on the IBM readouts along with all the bridge points.

23. **Adequacy of Control**

Horizontal control was adequate for bridging strips 1, 2 and 3. Strips 41, 42 and 43 were bridged using tie points and are adequate. The premarked paneling at Station OIL, 1913 was removed prior to photography and could not be identified. Station TENDER, 1967 fell off of model and was not used. SKIN, 1967, Subpoint A and Subpoint B, were too poor to read and were not used in the adjustment.

24. **Supplemental Data**

Vertical control needed for the adjustment was taken from USGS quadrangles.

25. **Photography**

The definition and quality of the RC-9 and RC-8 photography were good. Ratio prints have been ordered to compilation scale.

Submitted by:

P. J. Dempsey

Approved and forwarded:

H. P. Eichert, Chief
Aerotriangulation Section
31. **Delineation**

The Wild B-8 stereoplotter was used. There was no field investigation prior to compilation.

32. **Control** *(on separate page)*


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, MLLWL, and ledge areas were delineated from office interpretation of the photographs.

36. **Offshore Details**

All foul areas were delineated from office interpretation of the photographs.

37. **Landmarks and Aids** - None
Refer to Photogrammetric Plot Report, dated January 22, 1968.

Difficulty in holding control established by stereoplanigraph bridging of strips $\ell_1$, $\ell_2$, and $\ell_3$ was encountered, initially. They were returned to the Bridging Section and the subsequent re-adjustment resulted in "Revisions" for strips $\ell_1$ and $\ell_3$.

Strip $\ell_2$ had been compiled with little or no difficulty concerning the control. Although strip $\ell_1$ also was compiled utilizing the original Bridge Strip, the comparison between the original and "Revised" strip $\ell_1$ indicated a maximum change of approximately 0.3 mm which proved to be of an insignificant effect. The compilations of these two strips were summarily considered to be of sufficient accuracy. Both of these strips were oriented in a general north-south direction.

The results of the "Revision" of strip $\ell_3$ proved to be of a major change, and inasmuch as this strip was oriented in an east-west direction, intersecting both strips $\ell_1$ and $\ell_2$, an attempt to tie these together at their common models resulted in an error of tie-in between drilled pass points of strip $\ell_3$ and shoreline pass points common to all strips.

When model $62W-73\ell_3$ and $73\ell_6$, of strip $\ell_3$ was set, it was found that six of the seven drilled pass points would hold within tolerance, but none of the adjoining shoreline pass points from strips $\ell_1$ and $\ell_2$ would hold. When this model was re-scaled to all common shoreline points, the drilled points would not hold.

This same condition existed when model $62W-73\ell_4$ and $73\ell_7$ was set. Drilled pass points held within tolerance, but no common shoreline pass points between strip $\ell_2$ and this model would hold.

It was evident at this time that no model work could be compiled from strip $\ell_3$.

To further substantiate our decision, all five manuscripts were joined and a modified radial plot consisting of several processed ratio photos of each of strips $\ell_1$, $\ell_2$, and $\ell_3$ was laid.

It was noted during this plot, that the tie points (from the stereoplanigraph bridges), and the field identified triangulation control, would hold well with the common shoreline pass points, but the drilled points would not. (A few of the drilled points at or near sea level were noticeably closer than those at the higher elevations.)

It was concluded therefore that strips $\ell_1$ and $\ell_2$ were tied together well and were geographically correct, and that a graphic solution and compilation of the two models in question on strip $\ell_3$ could be made using the common shoreline pass points.
38. Control for Future Surveys - None

39. Junctions

Junctions were made with T-12317 to the west and T-12319 to the east. There are no contemporary surveys to the north and south.

40. Horizontal and Vertical Accuracy - No statement

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with USGS quadrangle ILLIAMNA (C-1), Alaska, scale 1:63,360, dated 1958.

47. Comparison with Nautical Charts

Comparison was made with USC&GS chart No.8554, 9th edition, (Cook Inlet, Southern Part) scale 1:200,000, dated May 10, 1965.

Items to be Applied to Nautical Charts Immediately - None

Items to be Carried Forward - None

Submitted by,

A. L. Shands
Carto (Tech)
March 1969

Approved:
FIELD EDIT REPORT

MAP  T-12318

DRY BAY, ALASKA

JULY 1973

Field edit of map T-12318 was done by LT(jg) Alan Potok, LT(jg) William Wert, and ENS John Murphy during July 1973. Inspection was done from small boats, and on foot when fixes on land were required.

METHOD

Field photographs and a copy of the field edit ozalid were taken into the field. Mean high water line verification was done by visual comparison of the shore and the ozalid in the field. Sextant fixes were used for verification and location of rocks and ledges in the area. Height data is written directly on the ozalid or referenced by fix number to the attached sheets. All times are based on the 135°W meridian.

ADEQUACY OF COMPILATION

Compilation of this map is good. Hydrographic details compare well with photogrammetric locations.

RECOMMENDATIONS

It is recommended that this map be revised in accordance with the notes on the ozalid and the fix information, and then be accepted as an advance manuscript.

Respectfully submitted,

JOHN A. MURPHY, ENS NOAA

Approved and forwarded,

Charles A. Burroughs
CDR, NOAA, Cmg.
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<th>TIME</th>
<th>DESCRIPTION</th>
<th>L</th>
<th>R</th>
<th>CHK ANGLE</th>
<th>L</th>
<th>C</th>
<th>R</th>
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<td>Ledge Limit Cov 3'</td>
<td>72-31</td>
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<td>40-09</td>
<td>37-31</td>
<td>28-17</td>
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<td>58-19</td>
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<td>69-15</td>
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<td>83-43</td>
<td>95-21</td>
<td>44-43</td>
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<td>Cov 6'</td>
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**Control Stations**

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**Bench Marks**

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**Alongshore Areas (Nautical Chart Data)**

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**Rocks, Shoals, etc.**

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**Physical Features**

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**Contours in General**

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**Cultural Features**

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**Boundaries**

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**Miscellaneous**

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**Discrepancy Overlay**

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**Reviewer**

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<td>RJP</td>
<td>A.C. Rauck</td>
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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.

**Compiler**

C. Blood March 1974

Reviewed by: G.R. Vanderhaven 3/28/74 A.C. Rauck

**Remarks**

Rock positions were transferred direct from the field edit ozalid. Ledge was delineated from 67M photographs.
Review Report T-12318
Shoreline Survey
February 1976

61. General Statement

Refer to the memorandum dated November 21, 1972, to reviewers, from Albert C. Rauck, Jr., Subject: Field Edit Ozalids on PH-6301. All rock positions on this manuscript were transferred direct from the field edit ozalid.

During the review the following fixes were removed from the Class I manuscript: 214, 215, 217, 218, 219, 220, and 221. The field editor stated these fixes were taken to give representative soundings prior to the running of hydro in the area. They have not been shown because of the uncertainty of what they represent.

The contemporary hydrographic survey (H-9379) that covers this manuscript is in boat sheet stage. A copy of the final reviewed map, the notes concerning application of field edit, and the notes concerning the results of comparison made during this final review, will be forwarded to the PMC.

62. Comparison with Registered Topographic Surveys

T-3420, Part I, 1:40,000, 1913
This survey is superseded by the new map.

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9379 is in boat sheet stage. Refer to Item 61 of this report.

65. Comparison with Nautical Charts


66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and complies with Bureau requirements.

Submitted by,

J. B. Phillips

Approved:

for P.K. Heywood
Chief, Photogrammetric Branch

Chief, Coastal Mapping Division
Date: Nov.21,1972

To: Reviewers.

From: Albert C. Rauck, Jr.
Coastal Mapping

Subject: Field edit ozalids on Job Ph-6301

You will note that several of the field edit ozalids for this project have a multitude of 3-point fixes lettered in purple.

One sheet has as many as 168 fixes assigned to the location of the outer edge of rock ledge. All of these were plotted and checked and when thus located, were laid over the ozalid on a light table. It was found that the plotted positions of these fixes coincided exactly with those on the ozalid.

It was suspected and later proven by a phone call to Mr. George Fernandes, that this is exactly what the field editor did after he plotted his fixes on his film ozalid furnished for this purpose. Mr. Fernandes verified this by conversation with the field works officer and his officers.

It was found to be not practical to re-plot these fixes again and the data was taken directly from the ozalids and applied to the map manuscripts. Phone verification was made 12:45 P.M. Nov.21,1972.
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12318

Bald Hill
Blister Creek
Bow Creek
Brown Creek
Cook Inlet
Dry Bay
Edelman Creek
Fitz Creek
Front Mountain

Griffin Creek
Iniskin
Iniskin Peninsula
Knub Hill
Oil Point
Rich Creek
Shark Tooth Hill
Twist Creek

Approved By:

[Signature]
A. Joseph Wraight
Chief, Geographer

Prepared By:

[Signature]
Frank W. Pickett
Cartographic Technician