FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

<table>
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<tr>
<th>Type of Survey</th>
<th>Shoreline (Photogrammetric)</th>
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<tr>
<td>Classification</td>
<td>Field edited map</td>
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<tr>
<td>Office No.</td>
<td>T-12330</td>
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<tr>
<td>Edition No.</td>
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LOCALITY

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<tr>
<td>General locality</td>
<td>Kamishak Bay, Cook Inlet</td>
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<tr>
<td>Locality</td>
<td>Kirschner Lake</td>
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</table>

1967 to 1971

CHIEF OF PARTY

J. Bull, RADM, Director, Atlantic Marine Center

LIBRARY & ARCHIVES

DATE

USC0000DC 370222-P68
## DESCRIP'TIVE REPORT - DATA RECORD

### T - 12330

**PROJECT NO. (III):**

**PH-6301**

**FIELD OFFICE (III):**

None

**CHIEF OF PARTY**

**PHOTOGRAMMETRIC OFFICE (III):**

Atlantic Marine Center, Norfolk, Virginia

**OFFICER-IN-CHARGE**

J. Bull, RAUP, Director

### INSTRUCTIONS DATED (III) (III):

<table>
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<tr>
<th>OFFICE</th>
<th>DATE</th>
<th>Part I</th>
<th>Supplement I</th>
<th>Supplement II</th>
<th>Supplement III</th>
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<td>Part I</td>
<td>Supplement I</td>
<td>Supplement II</td>
<td>Supplement III</td>
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### METHOD OF COMPIlATION (III):

**Wild B-8 Plotter**

**GRAPH SCALE (III):**

1:20,000

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

1:10,000 pantographed to 1:20,000

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

May 1976

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

R. CATDR

**DATE REGISTERED (IV):**

May 1976

**DATE: (III):**

MAY 1976

**DATE: (III):**

R. CATDR

**GEOGRAPHIC DATUM (III):**

N.A. 1927

**VERTICAL DATUM (III):**

MHW except as follows:

- Elevations shown as (25) refer to mean high water
- Elevations shown as (3) refer to sounding datum
  i.e., 3.03543660 = mean lower low water

**REFERENCE STATION (III):**

Kirschner, 1967

**LAT.:**

59° 25' 10.175" (314.9m)

**LONG.:**

153° 53' 07.112" (112.2m)

**STATE:**

Alaska

**ZONE:**

5

**UNADJUSTED**

**ADJUSTED**

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**

**FIELD INSPECTION BY (II):**

| None |

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

| Air Photo Compilation - July 9, 1967 (date of photography) |

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

| A. Bethea | 10/21/67 |

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

| L. F. Van Scoy | 10/25/67 |

**CONTROL PLOTTED BY (III):**

| J. Steinberg | 12/12/67 |

**CONTROL CHECKED BY (III):**

| A. Shands | 12/12/67 |

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

| P. Dempsey | 11/67 |

**STEREOSCOPIC INSTRUMENT COMPILATION (III):**

| PLANIMETRY | |

| A. Shands | 12/17/67 |

| CONTOURS | Inapplicable |

**MANUSCRIPT DELINEATED BY (III):**

| A. Shands | 12/20/67 |

**SCRIBEING BY (III):**

| |

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

| R. E. Smith | 03/01/68 |

**REMARKS:**

Field Edit by Alan P. Vanderkohe July 1971
**DESCRIPTIVE REPORT - DATA RECORD**

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

**USGS Type "M"**

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<td>0929</td>
<td>1:60,000</td>
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<td></td>
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**SUBORDINATE STATION: Iliamna Bay**

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<td></td>
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<td>12.3</td>
<td>14.5</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

J. B. Phillips

**DATE:**

March 1976

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

1

**RECOVERED:**

1

**IDENTIFIED:**

1

**NUMBER OF BM5) SEARCHED FOR (III):**

0

**RECOVERED:**

0

**IDENTIFIED:**

0

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

0

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

0

**REMARKS:**

---
JOB PH-6301 (PART-1)
COOK INLET, ALASKA
SHORELINE MAPPING
Scale 1:10,000 & 1:20,000
SUMMARY

T-12330 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 July 1971.

Final review was accomplished at the Rockville Office in March 1976.

A cronaflex positive copy of the map and a Descriptive Report will be registered in the NOS Archives.
<table>
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<th>Compilation Record</th>
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<tr>
<td>Shoreline revised from reduction of 1:10,000 scale compilation (Western half only)</td>
<td>December 1967</td>
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<tr>
<td>Field Edit applied</td>
<td>June 1968</td>
<td>Superseded</td>
</tr>
<tr>
<td></td>
<td>Nov. 1972</td>
<td></td>
</tr>
</tbody>
</table>
FIELD INSPECTION

T-12330

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:

[Signature]

P. J. Dempsey

Approved and forwarded:

[Signature]

H. P. Eichert, Chief
Aerotriangulation Section
31. **DELINEATION:**
   
   The Wild B-8 was used. See item 41. (*page ii*)
   
   Photography was adequate.
   
   There was no field inspection.

32. **CONTROL:**

   See Preliminary Photogrammetric Plot Report.

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:**

   There was no shoreline inspection.
   
   The mean lower low water was delineated from office interpretation of the photographs.

36. **OFFSHORE DETAILS:**

   No statement.

37. **LANDMARKS AND AIDS:**

38. **CONTROL FOR FUTURE SURVEYS:**

   None
T-12330

41. REVISION OF ITEM 31:

The area of this map south of latitude 59° 26' 15" and west of longitude 153° 54' 22.5" was compiled in May 1968 at 1:10,000 scale as T-13275, which was photographically reduced to 1:20,000. Then T-12330 was revised to agree with T-13275. Refer to the report for T-13275.
39. **JUNCTIONS:**

Junctions are in agreement with T-12329 to the west, T-12335 to the south, T-12331 to the east, and T-12326 to the north.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

No statement.

46. **COMPARISON WITH EXISTING MAPS:**

Comparison has been made with USGS Quadrangle ILIAMNA (B-3), Alaska, scale 1:63,360, dated 1954.

47. **COMPARISON WITH NAUTICAL CHARTS:**

Comparison has been made with USC&GS Chart No. 8554, scale 1:200,000, 9th edition, dated May 10, 1965.

**ITEMS TO BE APPLIED TO NAUTICAL CHART IMMEDIATELY:**

None

**ITEMS TO BE CARRIED FORWARD:**

None

Approved by:

J. Bull, RADM, USESSA
Director, Atlantic Marine Center

Submitted by:

A. L. Shands
Cartographic Technician

March 1968
49. **NOTES FOR THE HYDROGRAPHER:**

The MHWL was delineated by office interpretation of the photographs. Due to overhanging bluffs, identification of the MHWL was difficult, therefore, the MHWL should be checked carefully by the Field Editor and/or hydrographer.

The MLWNL, ledges, rocks, reefs, foul and shoal area were also shown from office interpretation of the photographs and should be verified, to determine their existence and accuracy.

Refer to Field Edit Ozalid.
F-12330
FIELD EDIT REPORT
NOAA SHIP PATHFINDER

July 1971 FIELD SEASON

I have examined these reports and data and found them to be correct and complete.

[Signature]
CAPT. NOAA
Commanding Officer
NOAA Ship PATHFINDER
Methods

The field edit of this map was done in accordance with photogrammetric instructions and project instructions to the Commanding Officer, NOAA SHIP PATHFINDER, dated 26 March 1971. A gently sloping beach made surf landings in skiffs a necessity when shore inspection was required. Sextant fixes were used to verify and locate objects that could not be seen or positively verified on the photographs.

All deletions, additions, verification 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. All features marked in green on the ozalid are to be deleted. Red circles on the ozalid indicate the approximate location of the signals used in the field work. Cross references on the field edit ozalid to the photographs are also a part of the compilation.

Adequacy of Compilation

Compilation of the manuscript was adequate and complete for all areas within the boundaries indicated on the field edit ozalid.

Recommendations

None

Additional Information:

Time meridian 135°W was used for all the work on this sheet.

All photogrammetric and ground survey signals used during the project are listed on a sheet attached to the field edit ozalid and are also included in this report. Signals used for field edit fixes are included in the list.

All fixes taken during the field edit are identified by number on the field edit ozalid and also on the mylar prints. A running tabulation of this data appears on the field edit ozalid.

Alan P. Vonderohe
LTJG, NOAA
Photo Officer
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PHOTOGRAMMETRIC OFFICE REVIEW  
T. 12330

1. PROJECTION AND GRIDS  
2. TITLE  
3. MANUSCRIPT NUMBERS  
4. MANUSCRIPT SIZE

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ALONGSHORE AREAS (Nautical Chart Data)

PHYSICAL FEATURES

20. WATER FEATURES
21. NATURAL GROUND COVER
22. PLANETABLE CONTOURS
23. STEREOSCOPIC INSTRUMENT CONTOURS
24. CONTOURS IN GENERAL
25. SPOT ELEVATIONS
26. OTHER PHYSICAL FEATURES

CULTURAL FEATURES

27. ROADS
28. BUILDINGS
29. RAILROADS
30. OTHER CULTURAL FEATURES

BOUNDARIES

31. BOUNDARY LINES
32. PUBLIC LAND LINES

MISCELLANEOUS

33. GEOGRAPHIC NAMES
34. JUNCTIONS
35. LEGIBILITY OF THE MANUSCRIPT
36. DISCREPANCY OVERLAY
37. DESCRIPTIVE REPORT
38. FIELD INSPECTION PHOTOGRAPHS
39. FORMS

40. REVIEWED

<table>
<thead>
<tr>
<th>SUPERVISOR, REVIEW SECTION OR UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. C. Rauck, Jr.</td>
</tr>
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</table>

41. REMARKS (See attached sheet)

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

<table>
<thead>
<tr>
<th>CHARLES PARKER 11-29-72</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUSAN KUMER 12-14-72</td>
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</tbody>
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SUPERVISOR

| A. C. Rauck, Jr. |

43. REMARKS

Field edit applied from Field edit or sketch T-12330 (1:20,000)
61. General Statement

During final review it was determined that discrepancies exist between this 1:20,000 scale manuscript and the 1:10,000 scale manuscript, T-12375, that covers a portion of this same area. The 1:10,000 scale map has been reviewed and a review report has been written. To avoid unnecessary repetition, this same area was not revised on T-12330. Where the same area is covered by a 1:10,000 scale map, the larger scale map and its accompanying Descriptive Report must be used for reference. A note stating this appears on the manuscript.

This review report will cover only that portion of T-12330 which extends East from Longitude 153°54'22.5'' at approximately the Kirchner Lake Waterfall.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, Item 46.

64. Comparison with Contemporary Hydrographic Surveys

H-9072 1:20,000 1969-1971

Comparison has been made with the final reviewed hydrographic survey H-9072. Differences exist in elevations of rocks due to the hydrographers' use of actual table readings in their computations. Many of the outer limits of ledge and foul were removed from the Class 1 manuscript during review to avoid conflicting with depth curves and soundings that had been developed by the hydrographer.

65. Comparison with Nautical Charts

Chart 8554 1:200,000 13th Edition May 1974

66. Adequacy of Results and Future Surveys

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

Submitted by,

[Signature]
J. B. Phillips

Approved:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Coastal Mapping Division
The rock at approx. Lat. 54°25'46" Long. 163°55'30" has been removed from the manuscript. Hydrographer sounded area at minus mean lower low water tide stage and did not find a rock at this location. The data available was insufficient for plotting during final review (no signal position, weak fix). Rock was removed from map, negative and copies, after conference with hydro-survey quality control section. Charts will remove the rock at the next printing.

J. Phillips
8/5/76
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6301 (Cook Inlet, Alaska)

T-12330

Kamishak Bay

Kirschner Lake

Sunday Creek

Approved by:

A. Joseph Wraight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

May 26, 1967
<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 IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>KIRSCHNER, 1967 Plot</td>
<td>1927</td>
<td>53° 53' 07.112&quot;</td>
<td>✓</td>
<td>112.2 ✓ (834.1)</td>
<td></td>
</tr>
<tr>
<td>Report</td>
<td>Unadju</td>
<td>53° 53' 07.112&quot;</td>
<td>✓</td>
<td>112.2 ✓ (834.1)</td>
<td></td>
</tr>
</tbody>
</table>

1 FT = 0.3048006 METER