**Form 504**

**U. S. COAST AND GEODETIC SURVEY**
**DEPARTMENT OF COMMERCE**

**DESCRIPTIVE REPORT**

**Type of Survey**  Shoreline

**Field No.** Ph-56  **Office No.** T-9731-9733

**LOCALITY**

**State** Alaska

**General locality**  Nunivak Island

**Locality** E. Coast, Cape Corwin to Cape Manning

**1945-51**

**CHIEF OF PARTY**

M.J. Tonkel, Chief of Field Party
E.H. Kirsch, Baltimore Photo. Office

**LIBRARY & ARCHIVES**

**DATE** January 14, 1958
DATA RECORD

T - 9731-9733, inclusive

Project No. (II): PH-56

Quadrangle Name (IV):

Field Office (II): Portland, Oregon

Chief of Party: M. J. Tonkel

Photogrammetric Office (III): Baltimore, Md.

Washington, D. C.

Officer-in-Charge: E. H. Kirsch

L. W. Swanson

Instructions dated (II) (III): 2 April 1951 (field)

Copy filed in Division of Photogrammetry (IV)

Office Files

Method of Compilation (III): 9 lens Reading plotter

Manuscript Scale (III): 1:20,000

Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III):

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 18 April 1957

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927 adj.

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water

Elevations shown as (3) refer to sounding datum

i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: 

Long.: Adjusted

Plane Coordinates (IV): UTM State: Zone: 3

Y= X=

Roman numerals indicate whether the item is to be entered by (II) 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.

Form T- Page 1
Camera (kind or source) (III): C&GS 9-Lens

PHOTOGRAPHS (III)

Office:
28891
28892
28894
28875
8-14-50
1500
1:20,000
2.8' above MLLW

Tide (III)

Reference Station: Kodiak
Subordinate Station: Tachikuga
Subordinate Station: Nash Harbor, Mekoryuk
Washington Office Review by (IV): Everett H. Ramsey

Date: 6 Jan 1956

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):
Number of Triangulation Stations established (II): 2
Number of BMs searched for (II): 2
Number of Recoverable Photo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III): none

Remarks:
*Tide data was furnished directly by Division of Tides and Currents.
T-9732

Camera (kind or source) (III): C&GS 9-Lens

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>Office</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>38211-213</td>
<td>19 July 1952</td>
<td>15:35</td>
<td>1:20,000</td>
<td>4.4 above MLLW</td>
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<tr>
<td>38237-239</td>
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<td>16:15</td>
<td></td>
<td>6.3</td>
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<tr>
<td>Field</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>14 Aug. 1950</td>
<td>15:30 (Approx.)</td>
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<td>15:00</td>
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</table>

Tide (III)

| Reference Station: | Kodiak |
|                   |       |
| Subordinate Station: | Tachikuga |
| Subordinate Station: | Nash Harbor |
| Subordinate Station: | Makoryuk |

Washington Office Review by (IV): Everett H. Ramsey

Date: 5 Jan 1955

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to opposite shore) (III):

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations established (II): 1

Recovered: Identified: 1

Number of BMs searched for (II): Recovered: Identified:

Number of Recoverable Photo Stations established (III): 3

Number of Temporary Photo Hydro Stations established (III): None

Remarks: *The tide data for all of Nunivak Island was furnished directly by the Division of Tides and Currents.*
T-9733

PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
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</thead>
<tbody>
<tr>
<td>38238</td>
<td>19 July 1952</td>
<td>16:14</td>
<td>1:20,000</td>
<td>6.2 above MLLW</td>
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<tr>
<td>38242, 243</td>
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<td>16:20</td>
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<td>6.3</td>
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<tr>
<td>38265</td>
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<td>16:42</td>
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<td>38297, 298</td>
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<td>17:20</td>
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<td>6.8</td>
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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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<tr>
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</table>

Reference Station: Kodiak
Subordinate Station: Tachikuga
Subordinate Station: Nash Harbor
Subordinate Station: Mekoryuk

Washington Office Review by (IV): Everett H. Ramsey

Date: 29 Dec 1955

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):
Shoreline (More than 200 meters to opposite shore) (III):
Shoreline (Less than 200 meters to opposite shore) (III):
Control Leveling - Miles (II):

Number of Triangulation Stations established (II): 2
Recovered: 2
Identified: 2

Number of BMs searched for (II): —

Number of Recoverable Photo Stations established (III): 1
None

Remarks: *The tide data for all of Nunivak was computed by the Division of Tides and Currents, based on the three subordinate stations listed above.
Field Inspection by (II):  I. Zirpel  
Date: Aug. 1951

Planetary contouring by (II):  None  
Date:

Completion Surveys by (II):  None  
Date:

Mean High Water Location (III) (State date and method of location): From 1951 field inspection (from airplane) and office photos listed on following page.

Projection and Grids ruled by (IV):  Austin Riley  
Date: 2-10-54

Projection and Grids checked by (IV):  H. D. Wolfe  
Date: 2-25-54

Control plotted by (III):  J. Steinberg  
Date: 8-24-54

Control checked by (III):  A. Queen  
Date: 9-29-54

Radial Plot or Stereoscopic 
Control extension by (III):  L. A. Senasack  
Date: 12-15-54

Stereoscopic Instrument compilation (III):  W. Heinbaugh  
Date: July 1955

Manuscript scribed by (III):  
Date:

Photogrammetric Office Review by (III):  J. Batty  
Date: Aug 1955

Instrument Work sheets, only

Elevations on Manuscript 
checked by (II) (III):  
Date:
T-9732
DATA RECORD

Field inspection by (II): I. Zirpel Date: Aug. 1951

Planetary contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location): From 1951 field inspection (from airplane) and from office photos listed on Page 4.

Projection and Grids ruled by (IV): Austin Riley Date: 2-15-54

Projection and Grids checked by (IV): H. D. Wolfe Date: 2-17-54

Control plotted by (III): J. W. Robinson Date: 8-11-54

Control checked by (III): F. J. Tarcza Date: 8-11-54

Radial Plot or Stereoscopic Control extension by (III): L. A. Senasack Date: 12-15-54

Stereoscopic Instrument compilation (III): W. Heinbaugh Date: July 1955

Instrument sheets only

Manuscript reviewed by (III): Date:

Photogrammetric Office Review by (III): D. Battley Date: Sept 1955

Elevations on Manuscript checked by (II) (III): Date:
T-9733
DATA RECORD

Field Inspection by (II): I. Zirpel Date: Aug. 1951

Planetable contouring by (II): None Date:

Completion Surveys by (II): None Date:

Mean High Water Location (III) (State date and method of location): From 1951 field inspection and office photos listed on Page 4.

Projection and Grids ruled by (IV): Austin Riley Date: 2-15-54

Projection and Grids checked by (IV): H. D. Wolfe Date: 2-17-54

Control plotted by (III): J. W. Robinson Date: 8-11-54

Control checked by (III): F. J. Tarcza Date: 8-11-54

Radial Plot or Stereoscopic
Control extension by (III): L. A. Senaseck Date: 12-15-54

Planimetry
Stereoscopic Instrument compilation (III): W. Heinbaugh Contours Date: July 1955

scribed by
Manuscript (III):

Photogrammetric Office Review by (III): *I. Levin
*Instrument Work Sheets Only Date: Aug. 1955

Elevations on Manuscript
checked by (II) (III):

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Form T Page 3
Official mileage for Cost Accounts

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<th>Sq.Mi.</th>
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<td>11</td>
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<tr>
<td>9741</td>
<td>94</td>
<td>8</td>
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Totals 940  252
TOPOGRAPHIC MAPPING PROJECT 6056

ALASKA-BERING SEA, Scammon Bay to Kuskokwim Bay and Nunivak Island

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.  Area sq. miles

166° (Joins 6073)

compiled 1:20,000 scale, from 1:20,000 scale nine-lens photographs; taken August [1950 and June, 1951];
additional nine-lens photography to be taken; Season 1952.

(Refer to Air-Photo Indexes B-42, 50, 51, 52 and E-31)

Sub-total 2,685

TCTAL: 4,299
Summary to Accompany Maps of Nunivak Island in Project 6056

Nunivak Island has been mapped under Project 6056 by a series of shoreline maps at a scale of 1:20,000 and a series of topographic maps at a scale of 1:40,000. The shoreline maps are numbered T-9723 to T-9741, inclusive, and the topographic maps are numbered T-10365 to T-10379, inclusive. These two series of maps were adopted so as to satisfy the requirements of the Army Map Service and this Bureau, and to expedite drafting and compilation procedures.

Field work in advance of compilation was done in 1951 and included the establishment of horizontal and vertical control, tidal observations, limited inspection of shoreline and interior features, and the investigation of geographic names. No additional field work was accomplished.

The maps of this project were compiled using instrument work sheets at 1:20,000 scale from the nine-lens plotters. Photographs were nine-lens taken in 1950 and 1952. The shoreline manuscripts at 1:20,000 scale cover only shoreline and adjacent prominent planimetric features. Maps T-9728, T-9734, T-9735 and T-9740 are the exception to this and show contours and other topographic features. These were compiled prior to the adoption of the 1:40,000 scale topographic series for Bureau use which were compiled using work sheets reduced to 1:40,000 scale.

Items registered under T-numbers will include cloth-backed prints of the map manuscripts and a copy of the corresponding descriptive reports.
FIELD INSPECTION REPORT

(See Descriptive Report T-9723-T-9730)
RADIAL PLOT REPORT

(See Descriptive Report - T-9723-T-9730)
<table>
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<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 IN FEET, OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927-DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>LEROY, 1951</td>
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<td>N.A. 1927</td>
<td>60 11</td>
<td>165 41</td>
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<td>174.2</td>
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<td>LEROY, 1951</td>
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<td>1446.2</td>
<td>183.1 ( 711.4)</td>
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<td>165 41</td>
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1 FT. = 0.3048006 METER

COMPUTED BY: A. Queen

DATE: 15 June 1954

CHECKED BY: J. Steinberg

DATE: 29 June 1954
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<td>626.5</td>
<td>(305.8)</td>
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</table>
31. This report covers the shoreline delineation of the east coast of Nunivak Island from Cape Corwin to Cape Manning.

The topography and shoreline were compiled simultaneously on the Reading Nine Lens plotters at 1:20,000 scale. The original instructions were changed, during instrument compilation, so that only the shoreline detail is to be inked on the 1:20,000 scale manuscript, and the topography is to be scribed at 1:40,000 scale. Several of the originally scheduled interior sheets were therefore deleted because of the lack of shoreline. This necessitated the renumbering of several maps (including those covered by this report), as shown on the attached index.

A new series of numbers was assigned to the 1:40,000 scale topographic maps. (See Compilation Report T-10365-10379.)

A Compilation review was applied insofar as practical to the instrument work sheets. UTM grid ticks were then inked on to the work sheets by adjusting the pass points to those on the base sheet. (Maximum error after adjustment was approx. .5 mm.) The work sheets were then photographically reduced to 1:40,000 scale and forwarded to the Drafting Section.

32. CONTROL: See radial plot report.

33. SUPPLEMENTAL DATA: None

34. CONTOURING AND DRAINAGE: Not applicable.

35 and 36. SHORELINE ALONGSHORE AND OFFSHORE DETAILS:

The shoreline, for the most part, appeared to be adequate. However, in the vicinity of Cape Corwin, T-9733, numerous rocks and foul areas which were not noted on the field photos were delineated from the office photos. Some difficulty was encountered in interpreting the term "Ledge Rock" as used by the field inspection party. Where this term was applied to scattered individual rocks the rock awash symbol was delineated; where it appeared to apply to a solid mass of rock, a ledge or reef symbol was delineated.

37. LANDMARKS AND AIDS: None located or approved by field party. J-9733

38. CONTROL FOR FUTURE SURVEYS: Six Forms 524* have been submitted and listed in the Notes to Hydrographer as follows: T-9731 - 2, T-9732 - 3, T-9733 - 1.

*Filed in Photogrammetry Division.
39. **JUNCTIONS:**

Only the instrument work sheets were joined in this section. Juntions were affected during review.

40. **HORIZONTAL AND VERTICAL ACCURACY:**

See radial plot report.

46. Comparison was made with USGS, 1:250,000 scale maps "Nunivak Island" and Cape "Mendenhall."

47. Comparison was made with nautical chart No. 9102.

48. **GEOGRAPHIC NAMES:**

No evidence of the two villages "Ingrimiut" (T-9732) and "Ahnikdoligamiut" (T-9731) could be seen on the photographs. Their locations were delineated from the position indicated on the Geographic Names mosaic. The village of Kanikyakstalikmiut (T-9731) was shown on the Geographic Names Mosaic as being on the south side of a lagoon; however, field inspection indicated barabaras on the north side. The latter position was delineated.

All geographic names have been delineated on the instrument work sheets and have been listed and attached to the report for the 1:40,000 scale topographic manuscripts.

Respectfully submitted:

Louis Levin
Supervisory Cartographer
Nine-lens Unit

Approved and Forwarded:

Charles Theurer
Supervisory Photogrammetric Engineer
Review Report
Topographic Maps T-9731 thru T-9733
6 January 1956

62. **Comparison with Registered Topographic Surveys:**

None.

63. **Comparison with Maps of Other Agencies:**

Nunivak Island, Alaska (USGS), 1:250,000, 1951
Cape Mendenhall, Alaska (USGS), "  "

Details are very sketchy on these maps which preclude a detailed comparison.

64. **Comparison with Contemporary Hydrographic Surveys:**

None.

65. **Comparison with Nautical Charts:**

9304 1952 corrected to 53-6/15

No discrepancies.

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

Only a limited field inspection of alongshore features was made. Thus, these features are somewhat generalized and are subject to errors in office interpretation of foul limits, rock heights, etc. Otherwise, no significant deficiencies in accuracy or adequacy of the maps were indicated.

Everett H. Fawley

**APPROVED BY:**

Lee Lande
Chief, Review & Drafting Section
Photogrammetry Division

May H. Poellett
Chief, Nautical Chart Branch
Charts Division

Lee Swenson
Chief, Photogrammetry Division

Joe Curran
Chief, Coastal Surveys Division
I recommend that the following objects which have not been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by

L. Lovin

N. E. Sylar (Field)

<table>
<thead>
<tr>
<th>STATE</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Twin</td>
<td>Southerly Fk of Twin Mtn.</td>
<td>Twin</td>
<td>60 01</td>
<td>48.718</td>
<td>165 42</td>
<td>G 1057</td>
<td>1951</td>
<td>9302</td>
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<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td>Triang.</td>
<td></td>
<td>X 9300</td>
</tr>
</tbody>
</table>

Supersede position on chart letter 126-52 which was on misplaced datum

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

* TABULATE SECONDS AND METERS
T-9731

NOTES TO THE HYDROGRAPHER

The following topographic stations were located by radial line plot:

SNOW, 1951        Identified on photo 28895
HOPE, 1951         "        "        " 28895

No photo hydro stations were established.
T-9732

NOTES TO THE HYDROGRAPHER

The following topographic stations were located by radial line plot:

POND, 1951 Identified on Photo No. 28916
TWIN AZIMUTH, 1951 Identified on Photo No. 28915
MARK, 1951 " " " 28916

No photo hydro stations were established.
T-9723

NOTES TO THE HYDROGRAPHER

The following topographic station was located by radial line plot.

Lake, 1951 identified on photo No. 28951

No photo hydro stations were established.