Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Shoreline  T-97 2/3 thru
Field No.  Ph-56  Office No. T-9741

LOCALITY
State  Alaska
General locality  Nunivak Island
Locality S. W. Coast - Cape Mohican to Cape Corwin  19450-51

CHIEF OF PARTY
M. J. Tonkel, Chief of Field Party
E. H. Kirsck, Chief of Field Party

LIBRARY & ARCHIVES
DATE  April 7, 1958
DATA RECORD

T - 9734-T-9741, 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.

Officer-in-Charge: E. H. Kirsch

Washington

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

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: 18 April 1957

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NAD 1927

Vertical Datum (III):

Mean sea level except as follows:

Elevations shown as (2) refer to mean high water

Elevations shown as (2) 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.
DATA RECORD
T-9734

Field Inspection by (II): I. Zirpel Date: July 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 field inspection (from air) and aerial photos listed on Page 14.

Projection and Grids ruled by (IV): J. Allen Date: 5 Jan. 1952

Projection and Grids checked by (IV): H. D. Wolfe Date: 8 Jan. 1952

Control plotted by (III): A. Queen Date: 27 April 1954

Control checked by (III): Leroy A. Senasack Date: 14 May 1954

Radial Plot or Stereoscopic
Control extension by (III): Leroy A. Senasack Date: 9 June 1954

Stereoscopic Instrument compilation (III):
Planimetry L. Levin Date: Aug. 1954

Contours Date:

Manuscript delineated by (III): Date:

Photogrammetric Office Review by (III): C. Misfeldt Date: July 1955

Elevations on Manuscript checked by (II) (III): Date:
DATA RECORD
T-9735

Field Inspection by (II):  I. Zirpel  Date: July 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 field inspection (from airplane) and office photos listed on following page.

Projection and Grids ruled by (IV):  Jack Allen  Date: 7 Jan. 1952
Projection and Grids checked by (IV):  H. D. Wolfe  Date: 8 Jan. 1952

Control plotted by (III):  Albert Queen  Date: 27 April 1954

Control checked by (III):  Leroy A. Senasack  Date: 14 May 1954

Radial Plot of Stereoscopic Contouring Index:  Leroy A. Senasack  Date: 23 July 1954

Stereoscopic Instrument compilation (II):  L. Levin & C. Misfeldt  Date: June 1954
Contours

Manuscript delineated by (III):  Date:

Photogrammetric Office Review by (III):  C. Misfeldt  Date: July 1955

Elevations on Manuscript checked by (II) (III):  Date:
DATA RECORD
T-9736

Field Inspection by (II): I. Zirpel, Jr. 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): Field inspection by airplane indicated MHW on 1950 photos. A combination of this inspection and modified predicted tide data was applied to the 1952 photos.

Projection and Grids ruled by (IV): Austin Riley Date: 18 Feb. 1954

Projection and Grids checked by (IV): H. D. Wolfe Date: 19 Feb. 1954

Control plotted by (III): J. W. Robinson Date: 11 Aug. 1954

Control checked by (III): F. J. Tarcza Date: 11 Aug. 1954

Radial Plot or Stereoscopic Control extension by (III): L. A. Sanasack Date: 15 Dec. 1954

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

(Contours C. Misfeldt)

Manuscript delineated by (III): Date:

Photogrammetric Office Review by (III): C. Misfeldt Date: Sept. 1955
(of plotter sheets only)

Elevations on Manuscript checked by (II) (III): Date:
DATA RECORD
T-9737

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 field inspection and office photos listed on following page.

Projection and Grids ruled by (IV): A. Riley
Date: 16 Feb. 1954

Projection and Grids checked by (IV): H. D. Wolfe
Date: 17 Feb. 1954

Control plotted by (III): E. L. Williams
Date: 12 July 1954

Control checked by (III): A. Queen
Date: 14 July 1954

Radial Plot or Stereoscopic Control extension by (III): E. L. Williams
Date: 16 Sept. 1954

Stereoscopic Instrument compilation (III):

Planimetry L. Levin
Date: Oct. 1954

Contours
Date:

scribed
Manuscript denoted by (III):

Photogrammetric Office Review by (III): *C. Misfeldt
Date: Sept. 1955

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

*Applied to instrument work sheets, only.

Date:
T-9738
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 field inspection and office photos listed on following page.

Projection and Grids ruled by (IV):  A. Riley
Date: 2-18-54

Projection and Grids checked by (IV):  H. D. Wolfe
Date: 2-18-54

Control plotted by (III):  A. Queen
Date: 6-29-54

Control checked by (III):  L. A. Senasack
Date: 7-14-54

Radial Plot or Stereoscopic
Control extension by (III):  E. L. Williams
Date: 9-16-54

Stereoscopic Instrument compilation (III):
Planimetry  L. Levin
Contours  C. Misfeldt
Date: Oct. 1954

scribed
Manuscript compiled by (III):
Date:

Photogrammetric Office Review by (III):  C. Misfeldt
Date: Aug. 1955

Elevations on Manuscript
checked by (II) (III):
Date:
T-9739
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 field inspection and
nine-lens photos listed on following page.  Date: 2-12-54

Projection and Grids ruled by (IV):  A. Riley  Date: 2-17-54

Projection and Grids checked by (IV):  H. D. Wolfe  Date: 8-11-54

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

Control checked by (III):  F. J. Tarcza  Date:

Radial Plot or Stereoscopic Control extension by (III):  E. L. Williams  Date: 9-16-54

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

Manuscript delineated by (III):  Date:

Photogrammetric Office Review by (III):  C. Misfeldt  Date: Aug. 1955

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

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

Planetary contouring by (II): None
Date:

Completion Surveys by (II): None
Date:

Mean High Water Location (III) (State date and method of location): Field inspection (from airplane) and aerial photos listed on Page 4.

Projection and Grids ruled by (IV): Austin Riley
Date: 2-16-54

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

Control plotted by (III): Albert Queen
Date: 4-27-54

Control checked by (III): Leroy A. Senasack
Date: 5-14-54

Radial Plot by: Leroy A. Senasack
Date: 7-23-54

Contouring by (III): Planimetry

Stereoscopic Instrument compilation (III): L. Levin
Date: Aug. 1954

Contours

Manuscript delineated by (III):
Date:

Photogrammetric Office Review by (III): C. Misfeldt
Date: 4 Aug. 1955

Elevations on Manuscript
checked by (II) (III):
Date:
T-9741
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):  Field inspection from airplane and interpretation from 1950 and 1952 office photos.

Projection and Grids ruled by (IV):  A. Riley  Date:  2-11-54

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

Control plotted by (III):  E. L. Williams  Date:  7-12-54

Control checked by (III):  L. A. Senasack  Date:  7-14-54

Radial Plot or Stereoscopic Control extension by (III):  E. L. Williams  Date:  9-16-54

Stereoscopic Instrument compilation (III):  Planimetry L. Levin

Contours  Date:  Sept. 1954

scribed  Date:

Manuscript (III) scribed by (III):  

Photogrammetric Office Review by (III):  C. Misfeldt  Date:  Aug. 1955

Elevations on Manuscript checked by (II) (III):  Date:
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>38323-325</td>
<td>19 July 1952</td>
<td>17:50</td>
<td>1:20,000</td>
<td>4.4 above MLLW</td>
</tr>
<tr>
<td>Field</td>
<td>14 Sept. 1950</td>
<td>15:00</td>
<td>1:20,000</td>
<td>0.8</td>
</tr>
</tbody>
</table>

Tide (III)

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

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Mean</th>
<th>Ranges</th>
<th>Range</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4.0</td>
<td>4.6</td>
<td>*</td>
</tr>
</tbody>
</table>

Date: 2 Nov 1985

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): Recovered: Identified: 2
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III): 2

Remarks: *Tide data is based on information furnished directly from the Division of Tides and Currents.
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>38325, 326, 327, 328</td>
<td>19 July 1952</td>
<td>17:50</td>
<td>1:20,000</td>
<td>5.3 above MLW</td>
</tr>
<tr>
<td>28969, 970</td>
<td>14 Aug. 1950</td>
<td>15:05</td>
<td>&quot;</td>
<td>1.3 &quot;</td>
</tr>
</tbody>
</table>

Tide (III)

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

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

Diurnal

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>*</td>
</tr>
</tbody>
</table>

Date: 3 Nov 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 searched for (II): Recovered: 4 Identified: 4
Number of BMs searched for (II): Recovered: 4 Identified: 4
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): 1

Remarks: *Tide data was furnished directly by the Division of Tides and Currents.
T-9736

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>38293 thru 98</td>
<td>7/19/52</td>
<td>17:20</td>
<td>1:20,000</td>
<td>6.9 MLLW</td>
</tr>
<tr>
<td>38301 thru 04</td>
<td></td>
<td>17:25</td>
<td></td>
<td>6.9 n</td>
</tr>
<tr>
<td>38265 and 66</td>
<td></td>
<td>16:35</td>
<td></td>
<td>6.0 n</td>
</tr>
<tr>
<td>29011</td>
<td>8/14/50</td>
<td>approx. 300</td>
<td>1:20,000</td>
<td>approx. + 2 MLLW</td>
</tr>
<tr>
<td>28951</td>
<td></td>
<td>approx. 400</td>
<td></td>
<td></td>
</tr>
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Tide (III)

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>6.3</td>
</tr>
</tbody>
</table>

Date: 29 Dec 1955

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 searched for (II): None

Number of BMs searched for (II): None

Number of Recoverable Photo Stations established (III): None

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

Remarks: Photogrammetric office review refers to plotter sheets only.

*Tide data furnished directly by Division of Tides and Currents.
Camera (kind or source) (III): C&GS 9-L

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>28974, 975</td>
<td>14 Aug. 1950</td>
<td>15:15</td>
<td>1:20,000</td>
<td>.9' above MLLW</td>
</tr>
</tbody>
</table>

Tide (III)

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Kodiac</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td>Tachikuga</td>
</tr>
<tr>
<td>Subordinate Station:</td>
<td>Nash Harbor</td>
</tr>
<tr>
<td>Subordinate Station:</td>
<td>Mekoryuk</td>
</tr>
</tbody>
</table>

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

Date: 23 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 searched for (II): Recovered: 1 Identified: 1

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

Number of Recoverable Photo Stations established (III): 1

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

Remarks:
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>38334, 335, 336</td>
<td>July 19, 1952</td>
<td>18:05</td>
<td>1:20,000</td>
<td>6.6' above MLLW</td>
</tr>
<tr>
<td>28975, 976</td>
<td>Aug. 14, 1950</td>
<td>15:15</td>
<td>&quot;</td>
<td>3.5' &quot;</td>
</tr>
<tr>
<td>28978, 979</td>
<td>Aug. 14, 1950</td>
<td>15:20</td>
<td>&quot;</td>
<td>3.2' &quot;</td>
</tr>
</tbody>
</table>

Tide (III)

Reference Station: Kodiak
Subordinate Station: Tachikuga
Subordinate Station: Nash Harbor
Subordinate Station: Mekoryuk
Washington Office Review by (IV): Everett H. Ramsey
Date: 27 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 searched for (II): 2
Recovered: 2
Identified: 2

Number of BMs searched for (II):

Number of Recoverable Photo stations established (III): 3
Number of Temporary Photo Hydro Stations established (III): 2

Remarks: *Tide data for all of Nunivak Island was computed by the Division of Tides and Currents, based on the three subordinate stations listed above.
## 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>38300, 301</td>
<td>19 July 1952</td>
<td>17:25</td>
<td>1:20,000</td>
<td>6.8 above MLLW</td>
</tr>
<tr>
<td>38336</td>
<td>&quot;</td>
<td>18:07</td>
<td>&quot;</td>
<td>6.6 &quot;</td>
</tr>
<tr>
<td>28978, 979</td>
<td>14 Aug. 1950</td>
<td>15:20</td>
<td>&quot;</td>
<td>1.3 &quot;</td>
</tr>
</tbody>
</table>

### Tide (III)

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

Date: 28 Dec 1955

- **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 searched for (II):** Recovered: 1 Identified: 1
- **Number of BMs searched for (II):** Recovered: Identified:
- **Number of Recoverable Photo Stations established (III):** 4
- **Number of Temporary Photo Hydro Stations established (III):** 1

**Remarks:** Tide data for all of Nunivak Island was computed by the Division of Tides and Currents, based on the three subordinate stations listed above.
PHOTOGRAPHS (III)

Number    Date        Time          Scale          Stage of Tide (*)
28970, 971, 972 14 August 1950 15:05 (approx.) 1:20,000 2.8 above MLLW

Tide (III)

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

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 for (II): 1
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (II): 1
Number of Temporary Photo Hydro Stations established (III):

Remarks:
*The tide data for all of Nunivak was computed by the Division of Tides and Currents based on all of the subordinate stations listed above.
**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>28972, 973, 974, 975</td>
<td>14 Aug. 1950</td>
<td>15:10</td>
<td>1:20,000</td>
<td>.9 above MLLW</td>
</tr>
<tr>
<td>38328, 329, 330</td>
<td>19 Sept. 1952</td>
<td>17:55</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Tide (III)**

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Kodiak</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subordinate Station:</td>
<td>Tachikuga</td>
</tr>
<tr>
<td>Subordinate Station:</td>
<td>Nash Harbor</td>
</tr>
<tr>
<td>Nekoryuk</td>
<td></td>
</tr>
</tbody>
</table>

Washington Office Review by (IV): **Everett H. Ramey**

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 searched for (II):** Recovered: 2 Identified: 2

**Number of BMs searched for (II):** None

**Number of Recoverable Photo Stations established (II):** 2

**Number of Temporary Photo Hydro Stations established (II):**

Remarks: *Tide data was computed by the Division of Tides and Currents from all of the subordinate stations listed above.*
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
---|---
9616 | 4.6
9680 | 9.1
9681 | 10.4
9682 | 9.6
9683 | 12
9684 | 10.3
9685 | 8.0
9686 | 14.5
9687 | 9.1
9688 | 17
9689 | 10.3
9690 | 8.6
9691 | 10.3
9692 | 1.0
9693 | 23
9694 | 34
9695 | 80
9696 | 31
9697 | 103
9698 | 6
9699 | 110
9700 | 23
9701 | 132
9702 | 80
9703 | 112
9704 | 57
9705 | 103
9706 | 40
9707 | 108
9708 | 68
9709 | 91
9710 | 17
9711 | 108
9712 | 5
9713 | 91
9714 | 91
9715 | 112
9716 | 108
9717 | 40
9718 | 68
9719 | 80
9720 | 3

Sub-total...2,685

Nunivak Island:

10365 | 4.9
10366 | 11.2
10367 | 7.0
10368 | 8.8
10369 | 4.7
10370 | 195
10371 | 222
10372 | 228
10373 | 228
10374 | 1.3
10375 | 35
10376 | 198
10377 | 158
10378 | 109
10379 | 35

Sub-total 1,614

Sub-total 2,685

TOTAL...4,299

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.

(R Refer to Air-Photo Indexes 342, 50, 51, 52 and 53.)
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 investi-
gation 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 for T-9723 thru 9730)
RADIAL PLOT REPORT

(See Descriptive Report for T-9723 thru 9730)
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31. This report covers the shoreline delineation of the South Shore of Nunivak Island from Cape Mohican eastward to Cape Corwin.

The topography and shoreline detail were compiled simultaneously on the Reading Nine-lens plotters at 1:20,000 scale. Shortly before the instrument delineation on the work sheets was completed a change was made in the method of compiling the manuscripts. It was decided to ink the shoreline detail, only, on 1:20,000 scale manuscripts and scribe the 1:40,000 color separation sheets directly from a reduced copy of the instrument sheets. Several of the interior 1:20,000 sheets were deleted because of the absence of shoreline and consequently some of the remaining sheets were renumbered as shown on the attached index. A new series of numbers was assigned to the 1:40,000 scale topo maps (see compilation report T-10365-10379).

A compilation review was applied, insofar as practical, to the instrument work sheets. UTM Grid coordinates were then inked on to the work sheets by adjusting the pass points to those on the base sheet. (Maximum shift after adjustment 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:

Although the majority of the shoreline was covered by both 1950 and 1952 photography it was not always practical to use the later photography on the plotter. However, where the 1952 was not used on the plotter the shoreline was checked graphically and corrected, if necessary, with the later photo. The southern end of Cape Mendenhall (T-9947 and 9948) and the area from topo station Carl (T-9741) to topo station Rock (T-9737) was covered by the 1950 photos only.

The field inspection, for the most part, appeared to be adequate; however, several rocks, awash, off Cape Mendenhall were not field inspected and consequently no reference to datum is shown.

37. LANDMARKS AND AIDS: None submitted by field party.

38. CONTROL FOR FUTURE SURVEYS:

Notes for the hydrographer are submitted for each map included in this report. Forms 524 were submitted as follows: T-9734 - 1; T-9735 - 1; T-9737 - 1; T-9738 - 3; T-9739 - 4; T-9740 - 1; T-9741 - 2.

* Filed in Photogrammetry Div.
The positions of three of the four topographic stations which were located by sextant fixes on T-9738 and T-9739 have been listed as approximate. (See Paragraph 27, "Radial Plot Report.") The position of Alex, 1951 was determined from the prick card and description, and is believed to be within the accuracy requirements. The positions of stations Oboe, Flag and High were determined by the same method but are believed to be approximate only. They have been indicated on the manuscript with a dashed circle. The positions were marked approximate on the 524 cards.

39. **JUNCTIONS:** Only the instrument work sheets were joined in this section.

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", 1951.

47. Comparison was made with Nautical Chart No. 9102.

48. **GEOGRAPHIC NAMES:** Several of the summer camps which were indicated on the geographic names sheet were difficult to locate on the photos. Most of the camps consisted of scattered sod huts or tent frames which could not be delineated from the photos. A dashed line was penciled on the work sheets as near as possible to the point of the leader inked on the names sheet which was a 1:200,000 scale mosaic. Some of these camps were also labeled "barabaras" by the shoreline inspection party. This label was omitted where a summer camp name was furnished.

An apparent discrepancy was noted in the naming of two large sand dune areas northeast of Cape Mendenhall by the field party. The names Nunathloogamiuthingoi and Gongalamingoi were applied to the same area. The former name was moved by the compiler to a large unnamed dune area in the vicinity of a town having the same name.

All names have been shown on the work sheets and have been listed and attached to the report for the 1:40,000 scale topo manuscripts. (T-10365 thru T-10379)

Respectfully submitted:

Louis Levin
Supervisory Cartographer
Nine Lens Unit

Approved and Forwarded:

Charles Theurer
Supervisory Photogrammetric Engineer
62. **Comparison with Registered Topographic Surveys:**

   T-2610 1:40000 1902

   A portion of this survey falls in the area of T-9734 and is to be superseded by T-9734 for nautical charting purposes.

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

   Cape Mendenhall, Alaska (USGS), 1:250000, 1951
   Nunivak Island, " " " "

   Topographic and planimetric details are very generalized and approximate on these maps which preclude a detailed comparison.

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

   None.

65. **Comparison with Nautical Charts:**

   9302, 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.

   

   [Signature]

   Everett H. Ramey

**APPROVED BY:**

   [Signature]

   L. A. Landy
   Chief, Review & Drafting Section
   Photogrammetry Division

   [Signature]

   J. J. Swanson
   Chief, Photogrammetry Division
   20 March 1958

   [Signature]

   W. L. Richwine
   Chief, Coastal Surveys Division

   [Signature]

   C. J. Shackleford
   Chief, Nautical Chart Branch
   Charts Division
T-9734

NOTES TO THE HYDROGRAPHER

The following topographic station was located by radial line plot:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Knot, 1951</td>
<td>28967</td>
</tr>
</tbody>
</table>

The following photo-hydro stations were located:

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>116</td>
<td>Point of bluff west of stream</td>
<td>28968</td>
</tr>
<tr>
<td>117</td>
<td>Point of land on top of bluff</td>
<td>28968</td>
</tr>
</tbody>
</table>
T-9735

Notes to the Hydrographer

The following topographic station was located by radial line plot:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sock, 1951</td>
<td>28969</td>
</tr>
</tbody>
</table>

The following photo-hydro station was located:

<table>
<thead>
<tr>
<th>Station</th>
<th>Description</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>118</td>
<td>Pinnacle rock below top of bluff</td>
<td>28968</td>
</tr>
</tbody>
</table>
T-9737

NOTES TO THE HYDROGRAPHER

The following topographic station was located by radial-line plot:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rock, 1951</td>
<td>28975</td>
</tr>
</tbody>
</table>
T-9738

NOTES TO THE HYDROGRAPHER

Topographic station located by radial-line plot:

Beat, 1951 identified on field photo 28977

Topographic stations located by transfer from field photo identification to manuscript while holding adjacent detail (resection by sextant fixes gave erroneous and multiple location. Positions are approximate only:

Flag, 1951 identified on field photo 28978
High, 1951 28978

Hydro stations located by radial-line plot:

Hydro 100 identified on field photo 28954
Hydro 101 28978
T-9739

NOTES TO THE HYDROGRAPHER

Topographic stations located by radial-line plot:

Bent, 1951  identified on field photo  29011
Hard, 1951  28953
Alex, 1951  28979

Topographic station located by transfer from field identification photo to manuscript while holding adjacent detail (resection by sextant fixes gave erroneous and multiple locations): 
Approximate position.

Obre, 1951  29011

Hydro station located by radial line plot:

hydro 102  identified on field photo  28979
T-9740

NOTES TO THE HYDROGRAPHER

The following topographic station was located by radial line plot:
T-9740

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Item, 1951</td>
<td>28971</td>
</tr>
</tbody>
</table>

The following photo-hydro station was located by radial line plot:
T-9740

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>103</td>
<td>28970</td>
</tr>
</tbody>
</table>
T-9741

NOTES TO THE HYDROGRAPHER

The following topographic stations were located by radial line plot:

<table>
<thead>
<tr>
<th>Station</th>
<th>Identified on field photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carl, 1951</td>
<td>28972</td>
</tr>
<tr>
<td>Pipe, 1951</td>
<td>28974</td>
</tr>
</tbody>
</table>

No photo-hydro stations were established.