9734 THRU 9741

9734 THRU 9741

Diag. Cht. No. 9302.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-56 Office No. T-9734 thru T-9741

LOCALITY

State Alaska

General locality Nunivak Island

Locality S. W. Coast - Cape Mohican to Cape Corwin

1950-51

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE April 7, 1958

B-1870-1 (1)

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
E. H. Kirsch

Photogrammetric Office (III): Baltimore, Md.
Washington Officer-in-Charge: L. W. Swanson

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: Date registered (IV): 18 April 1957

Publication Scale (IV): Publication date (IV):

Geographic Datum (III): N A 1927 Vertical Datum (III):

Mean sea level except as follows:
Elevations shown as (25) refer to mean high water
Elevations shown as (5) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III):

Lat.: Long.: Adjusted ~~Unadjusted~~

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.

M-2618-12(4)

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.
From 1952 photos Agg

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 Date:
Contours L. Levin Date: Aug. 1954

Manuscript delineated by (III): Date:

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

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

M-2618-12(4)

DATA RECORD

T-9735

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 airplane) and office photos listed on following page.
from 1952 Photos

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 ~~or Stereoscopic~~ Date: 23 July 1954
Control extension by (III): Leroy A. Senasack

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

Manuscript delineated by (III): Date:

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

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

M-2618-12(4)

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.

Shoreline essentially from 1952 photos. BJG

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. Senasack Date: 15 Dec. 1954

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

Contours Date:

Manuscript delineated by (III): Date:

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

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

M-2618-12(4)

DATA RECORD

T-9737

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 office photos listed on following page.
Part from 1950 and part from 1952 photos

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:

Manuscript ~~delineated~~ scribed by (III): Date:

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

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

*Applied to instrument work sheets, only.

M-2618-12(4)

T-9738

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 office photos listed on following page.

~~Part from 1950 and part from 1952 photos.~~
From 1952 photos only

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 C. Misfeldt Date: Oct. 1954
Contours Date:

Manuscript ~~delineated~~ scribed by (III): Date:

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

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

M-2618-12(4)

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.

~~Part from 1950~~
From 1952 Photos Agg

Projection and Grids ruled by (IV): A. Riley Date: 2-12-54

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): E. L. Williams Date: 9-16-54

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

Manuscript delineated by (III): Date:

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

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

M-2618-12(4)

T-9740

DATA RECORD

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): Field inspection (from airplane) and aerial photos listed on Page 4.
from 1952 Photos Ogg

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 ~~or Stereoscopic~~ ~~control extension by~~ (III): Leroy A. Senasack Date: 7-23-54

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

Manuscript delineated by (III): Date:

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

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

M-2618-12(4)

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.
Part from 1950 and part from 1952 photos
AGJ

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 Date: Sept. 1954
Contours 7 Date:

Manuscript ~~drawn~~ scribed by (III): Date:

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

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

M-2618-12(4)

Camera (kind or source) (III): C&GS 9-L T-9734

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
38323-325	19 July 1952	17:50	1:20,000	4.4 above MLLW
Field 28967-968	14 Sept. 1950	15:00	1:20,000	0.8 " "

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	Range
	4.2	4.6 *

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

Washington Office Review by (IV): Everett H. Ramey Date: 2 Nov 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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: Identified: 2
Number of BMs searched for (II): Recovered: Identified:
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.

T-9735

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
38325, 326, 327, 328	19 July 1952	17:50	1:20,000	5.3 above MLLW
28969, 970	14 Aug. 1950	15:05	"	1.3 " "

Tide (III)

Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
		5.6 *

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

Washington Office Review by (IV): Everett H. Ramey Date: 3 Nov 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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: Identified:
Number of Recoverable Photo/Topo 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.

M-2618-12(4)

T-9736

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
38293 thru 98	7/19/52	17:20	1:20,000	6.9 MLLW
38301 thru 04	"	17:25	"	6.9 "
38265 and 66	"	16:35	"	6.0 "
29011	8/14/50	approx. 300	1:20,000	approx. + 2 MLLW
28951	"	approx. 400	"	" 2 "

Tide (III)

Ratio of Ranges	Mean Range	Spring Range	
		6.3	*

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

Washington Office Review by (IV): Everett H. Rawey Date: 29 Dec 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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 Recovered: None Identified: 3 Established
Number of BMs searched for (II): None Recovered: Identified: 0
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.

M-2618-12(4)

T-9737

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28974, 975	14 Aug. 1950	15:15	1:20,000	.9' above MLLW

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
	3.9	4.3

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

Washington Office Review by (IV): Everett H. Ramey Date: 23 Dec 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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

Remarks:

M-2618-12(4)

T-9738

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
38334, 335, 336	July 19, 1952	18:05	1:20,000	6.6' above MLLW
28975, 976	Aug. 14, 1950	15:15	"	3.5' " "
28978, 979	Aug. 14, 1950	15:20	"	3.2' " "

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range
Reference Station: Kodiak		5.6	-
Subordinate Station: Tachikuga)		-	6.1
Subordinate Station: Nash Harbor) *			
Subordinate Station: Mekoryuk)			

Washington Office Review by (IV): Everett H. Ramey Date: 29 Dec 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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): Recovered: Identified:
Number of Recoverable Photo/Topo 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.

M-2618-12(4)

T-9739

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
38300, 301	19 July 1952	17:25	1:20,000	6.8 above MLLW
38336	"	18:07	"	6.6 " "
28978, 979	14 Aug. 1950	15:20	"	1.3 " "

Tide (III)

	Ratio of Ranges	Mean Range	Spring Range	
Reference Station: Kodiak				
Subordinate Station: Tachikuga		5.6	6.1	*
Subordinate Station: Nash Harbor Makoryuk				

Washington Office Review by (IV): Everett H. Ramey Date: 28 Dec 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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.

M-2618-12(4)

T-9740

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

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)

Ratio of Ranges	Mean Range	Diurnal ~~Spring~~ Range
		5.6 *

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

Washington Office Review by (IV): Everett H. Ramey Date: 4 Nov 1955

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

Proof Edit by (IV): Date:

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): established
Number of Triangulation Stations ~~established~~ for (II): ~~Recovered~~: 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): 1

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.

M-2618-12(4)

T-9741

Camera (kind or source) (III): 9-L CE&GS

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
28972, 973, 974, 975	14 Aug. 1950	15:10	1:20,000	.9 above MLLW
38328, 329, 330	19 Sept. 1952	17:55	"	4.8 " "

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	Spring Range	
	3.9	4.3	*

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

Washington Office Review by (IV): Everett H. Ramey Date: 10 Jan 1956

Final Drafting by (IV): Date:

Drafting verified for reproduction by (IV): Date:

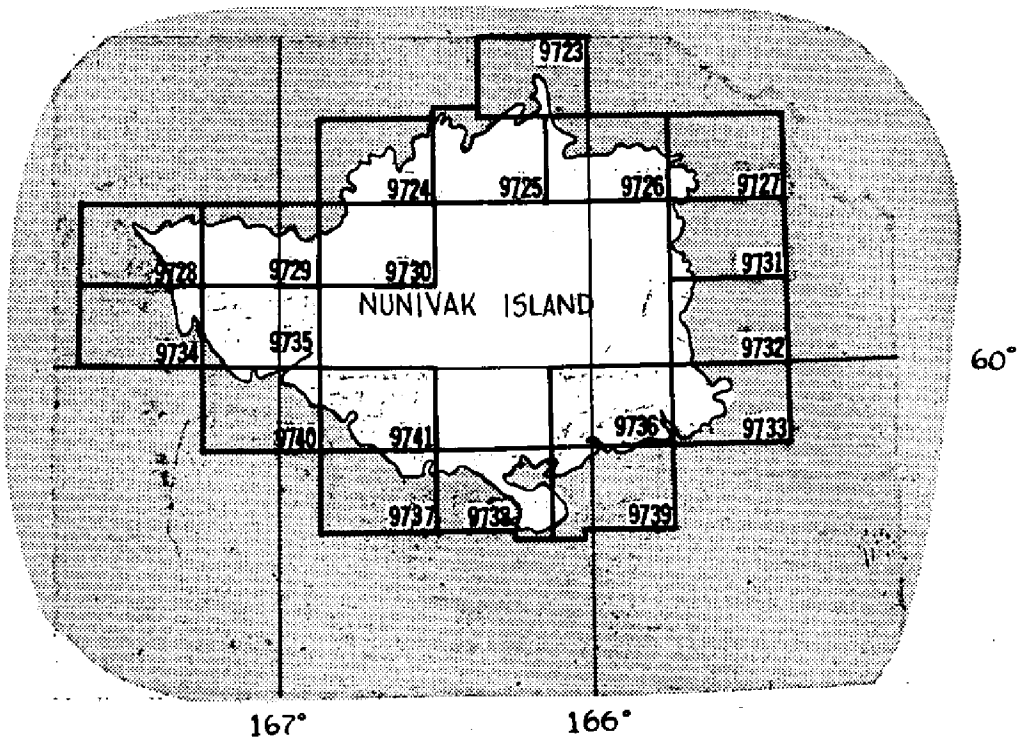
Proof Edit by (IV): Date:

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 Recovered: Identified:
Number of Recoverable Photo/Topo Stations established (III): 2
Number of Temporary Photo Hydro Stations established (III):

Remarks: *Tide data was computed by the Division of Tides and Currents from all of the subordinate stations listed above.

SHORELINE MAPPING PROJECT 6056

Nunivak Is., Alaska



Official mileage for Cost Accounts

Sheet	Area Sq.Mi.	Lin.Mi. Shoreline
9723	6	10
9724	49	11
9725	106	10
9726	70	13
9727	8	17
9728	36	19
9729	88	15
9730	106	12
9731	15	23
9732	22	21
9733	35	20
9734	11	10
9735	107	5
9736	105	4
9737	10	9
9738	44	25
9739	14	9
9740	14	11
9741	94	8
Totals	940	252

TOPOGRAPHIC MAPPING PROJECT 6056

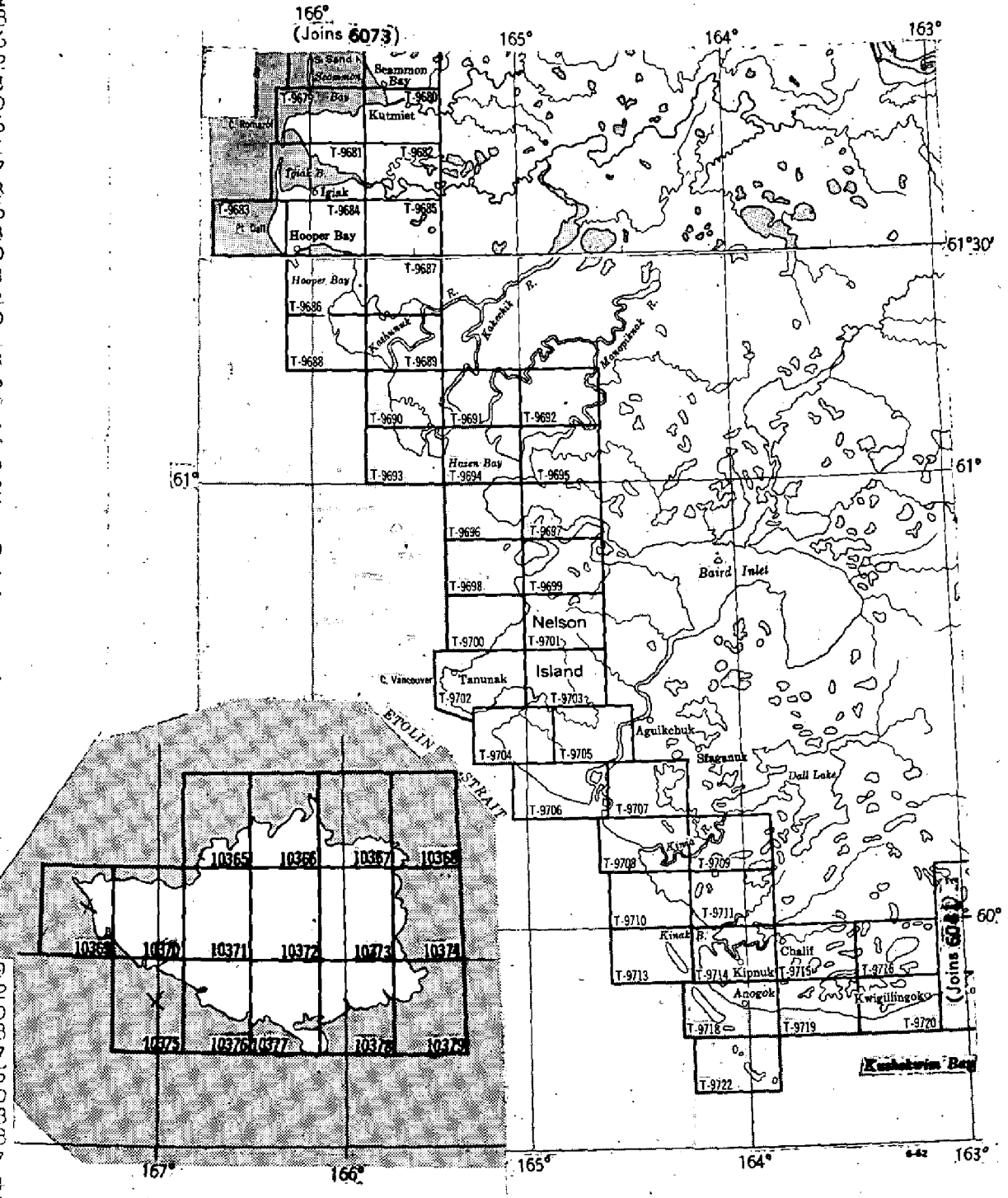
ALASKA-BERING SEA, Scammon Bay to Kuskokwim Bay and Nunivak Island

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area sq.miles
9679	46
9680	91
9681	68
9682	96
9683	12
9684	103
9685	80
9686	46
9687	91
9688	17
9689	103
9690	86
9691	103
9692	40
9693	23
9694	34
9695	80
9696	34
9697	103
9698	6
9699	110
9700	23
9701	112
9702	80
9703	112
9704	57
9705	103
9706	40
9707	108
9708	68
9709	91
9710	17
9711	108
9713	6
9714	91
9715	112
9716	108
9718	40
9719	68
9720	80
9722	3
Sub-total	2,685

Nunivak Island

10365	49
10366	112
10367	70
10368	8
10369	47
10370	195
10371	220
10372	228
10373	228
10374	37
10375	14
10376	101
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.

(Refer to Air-Photo Indexes B-42, 50, 51, 52 and E-10)

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.

Cronar print Items registered under T-numbers will include cloth-backed prints or 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)

FORM 16 (4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-9735 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
V-11, 1951		NA 1927	60 05 54.328				1681.4	(175.5)		
			166 55 55.710				861.0	(66.3)		
Sub. Pt. A V-11, 1951		"	60 05				1666.2	(190.7)		
			166 55				838.2	(89.1)		
Sub. Pt. B V-11, 1951		"	60 05				1700.2	(156.7)		
			166 55				825.8	(101.5)		
CLEAR, 1951	p. 4	"	60 05 06.416				198.6	(1658.4)		
			167 12 34.637				535.5	(392.1)		
Sub. Pt. A. CLEAR, 1951		"	60 05				242.6	(1614.4)		
			167 12				543.2	(384.4)		
Sub. Pt. B CLEAR, 1951		"	60 05				247.1	(1609.9)		
			167 12				513.6	(414.0)		
E.P.I. MAST (Station Dog), 1951	p. 9	"	60 03 32.216				997.1	(859.9)		
			167 14 22.714				351.5	(576.9)		
PIERCE, 1951	p. 5	"	60 03 31.475				974.1	(882.8)		
			167 14 17.004				263.1	(665.3)		
Sub. Pt. A PIERCE, 1951		"	60 03				1074.8	(782.1)		
			167 14				275.8	(652.5)		
Sub. Pt. B PIERCE, 1951		"	60 03				1040.9	(816.0)		
			167 14				176.3	(752.1)		
SHORAN MAST (Station Dog), 1951	p. 9	"	60 03 30.516				944.4	(912.5)		
			167 14 07.980				123.5	(804.9)		
KNOLL, 1951	p. 3	"	60 02 20.322				628.9	(1228.0)		
			167 11 03.976				61.6	(867.4)		

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: A. Queen DATE 21 April 1954 CHECKED BY: L. A. Senasack DATE 12 May 1954

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 9735 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Sub. Pt. A KNOLL, 1951			60 02 167 11			523.5 (1333.4) 115.6 (813.4)	
Sub. Pt. B KNOLL, 1951			60 02 167 11			522.6 (1334.3) 131.6 (797.4)	
TACHY, 1951	p. 8	NA 1927	60 00 12.79 167 03 36.62			395.8 (1461.1) 567.6 (362.4)	
Sub. Pt. TACHY, 1951			60 00 167 03			336.5 (1520.4) 657.6 (272.4)	
NUNIVAK ISLAND ASTRO, 1902	p. 8		60 03 53.56 167 14 42.71			1657.6 (199.3) 660.7 (267.5)	
CAIRN AT KNOLL, 1951	p. 9	NA 1927	60 02 20.149 167 11 04.088			623.6 (1233.3) 63.3 (865.6)	

1 FT. = .3048006 METER

COMM-DC-57843

COMPUTED BY: A. Queen DATE 21 April 1954 CHECKED BY: L. A. Senasack DATE 12 May 1954

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- ~~9944~~ 9736 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
CRATER, 1951	Nunivak Island p. 2		59 56 36.005				1114.3	(742.6)		
			166 01 19.686				305.7	(626.0)		
Sub. Pt. CRATER, 1951			59 57				237.5	(1619.4)		
			166 00				502.5	(429.2)		
SANDY, 1951	Nunivak Island p. 7		59 53 51.649				1598.4	(258.4)		
			165 47 37.621				584.9	(347.9)		
Sub. Pt. SANDY, 1951			59 53				1706.5	(150.3)		
			165 47				605.0	(327.8)		
CAIRN AT CRATER, 1951	Nunivak Island p. 9		59 56 36.622				1133.4	(723.5)		
			166 01 20.307				315.3	(616.3)		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 11 June 1954 CHECKED BY: J. Steinberg DATE 29 June 1954

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

9737

MAP T-~~9916~~ PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
DEWEY, 1951	Nunivak Island p. 8	N.A. 1927	59 51 09.703				300.3	1556.6		
			166 35 49.863				776.4	157.8		
Sub. Pt. A DEWEY, 1951			59 51				556.7	1300.2		
			166 35				800.8	133.4		
Sub. Pt. B DEWEY, 1951			59 51				290.2	1566.7		
			166 35				748.8	185.4		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 6/10/54 CHECKED BY: E. L. Williams DATE 6/22/54

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
CONTROL RECORD

9738

MAP T-~~9947~~ PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
BEACH, 1951	Nunivak Island p. 2	N.A. 1927	59 50 44.427			1374.9 482.0	
			166 22 22.058			343.5 590.9	
Sub. Pt. A BEACH, 1951			59 50			1578.1 278.8	
			166 22			363.4 571.0	
Sub. Pt. B BEACH, 1951			59 50			1376.5 480.4	
			166 22			354.3 580.1	
MOUND, 1951	Nunivak Island p. 2	N.A. 1927	59 47 34.607			1071.0 785.9	
			166 10 59.131			922.3 13.6	
Sub. Pt. A MOUND, 1951			59 47			1032.2 824.7	
			166 11			14.7 921.2	
Sub. Pt. B MOUND, 1951			59 47			1053.5 803.4	
			166 11			13.8 922.1	
CAIRN AT MOUND, 1951	Nunivak Island p. 9	N.A. 1927	59 47 34.033			1053.3 803.6	
			166 11 01.467			22.9 913.0	

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 6/11/54 CHECKED BY: E. L. Williams DATE 6/22/54

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

9739.

MAP T-~~9948~~ PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
CINDER, 1951	Nunivak Island p. 7	N.A. 1927	59 52 15.660				484.6	1372.2		
			166 02 38.540				599.7	334.0		
Sub. Pt. CINDER, 1951			59 51				1784.7	72.1		
			166 02				18.6	915.1		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 6/11/54 CHECKED BY: J. Steinberg DATE 6/29/54

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T- 9740 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
BLUFF, 1951	p. 3	NA 1927	59 58 03.949 166 54 33.453				122.2 519.0	(1734.7) (411.9)		
Sub. Pt. A BLUFF, 1951			59 58 166 54				57.6 453.4	(1799.3) (477.5)		
Sub. Pt. B BLUFF, 1951			59 58 166 54				104.5 523.8	(1752.4) (407.1)		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 20 April 1954 CHECKED BY: L. A. Senasack DATE 12 May 1954

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T-9741 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD	(BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD	(BACK)
REINDEER, 1951	Nunivak Island p.2	N.A. 1927	59 58 55.873				1729.1	127.7		
			166 34 01.237				19.2	911.4		
Sub. Pt. A REINDEER, 1951			59 58				1758.8	98.0		
			166 34				46.6	884.0		
Sub. Pt. B REINDEER, 1951			59 58				1747.0	109.8		
			166 33				859.6	71.0		
Sub. Pt. C REINDEER, 1951			59 59				179.8	1677.0		
			166 33				779.6	151.0		
CLIFF, 1951	Nunivak Island p. 3	N.A. 1927	59 53 51.027				1579.2	277.7		
			166 44 49.677				772.4	160.5		
Sub. Pt. CLIFF, 1951			59 53				1452.9	404.0		
			166 44				893.8	39.1		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 6/10/54 CHECKED BY: E. L. Williams DATE 6/22/54

COMM-DC-57843

Photogrammetry

MAP T-9734 PROJECT NO. Ph-56 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE / LONGITUDE OR x-COORDINATE ° ' "	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
MOHICAN SOUTH EAST BASE, 1951	Nunivak Island p. 4	N.A. 1927	60 05 50.330			1557.7 (299.2)	
			167 17 56.451			872.5 (54.8)	
Sub Pt MOHICAN S. E. BASE, 1951			60 05			1272.5 (584.4)	
			167 17			894.0 (33.3)	
DOLLY, 1951	Nunivak Island p. 5	N.A. 1927	60 03 57.527			1780.4 (76.5)	
			167 15 17.205			266.1 (662.0)	
Sub Pt DOLLY, 1951			60 03			1726.6 (130.3)	
			167 15			316.5 (611.6)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: A. Queen DATE 20 April 1954 CHECKED BY: L. A. Senasack DATE 10 May 1954

COMPILATION REPORT
T-9734-T-9741

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 photos. 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; T9737 - 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 pricking 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 Oongalambingoi 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) ENK

Respectfully submitted:

Louis Levin

Louis Levin
Supervisory Cartographer
Nine Lens Unit

Approved and Forwarded:

Charles Theurer

Charles Theurer
Supervisory Photogrammetric Engineer

Review Report
Shoreline Surveys T-9734 Thru T-9741
14 March 1956

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.

Everett H. Ramey
Everett H. Ramey

APPROVED BY:

L C Lundy
Chief, Review & Drafting Section
Photogrammetry Division

Max Blackstone
Chief, Nautical Chart Branch
Charts Division

H W Swanson
Chief, Photogrammetry Division
20 March 1958

Chief, Coastal Surveys Division

T-9734

NOTES TO THE HYDROGRAPHER

The following topographic station was located by radial line plot:

Station	Identified on field photo
Knot, 1951	28967

The following photo-hydro stations were located:
T-9734

Station	Description	Identified on field photo
116	Point of bluff west of stream	28968
117	Point of land on top of bluff	28968

T-9735

Notes to the Hydrographer

The following topographic station was located by radial line plot:

Station	Identified on field photo
Sock, 1951	28969

The following photo-hydro station was located:

Station	Description	Identified on field photo
118	Pinnacle rock below top of bluff	28968

T-9737

NOTES TO THE HYDROGRAPHER

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

Station	Identified on field photo
Rock, 1951	28975

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.

Oboe, 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

Station	Identified on field photo
Item, 1951	28971

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

Station	Identified on field photo
103	28970

T-9741

NOTES TO THE HYDROGRAPHER

The following topographic stations were located by radial line plot:

T-9741

Station	Identified on field photo
Carl, 1951	28972
Pipe, 1951	28974

No photo-hydro stations were established.