9731 9732
9733

9731 9732
9733

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-9731-9733

LOCALITY

State Alaska

General locality Nunivak Island

Locality E. Coast, Cape Corwin to Cape Manning.

1950-51

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE January 14, 1958

B-1870-1 (1)

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 (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.

T-9731

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
Office:				
28891)				
28892)				
28894)	8-14-50	1500	1:20,000	2.8' above MLLW
28875)				

Tide (III)

		Ratio of Ranges	Mean Range	Spring Range	
Reference Station:	Kodiak				
Subordinate Station:	Tachikuga			8.6	*
Subordinate Station:	Nash Harbor, Mekoryuk				

Washington Office Review by (IV): Everett H. Ramey Date: 6 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~~ established (II): 2 Recovered: Identified: 2
Number of BMs searched for (II): — Recovered: Identified:
Number of Recoverable Photo Topo 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.

M-2618-12(4)

T-9732

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

PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Stage of Tide *
Office:	38211-213	19 July 1952	15:35	1:20,000	4.4 above MLLW
	38237-239	"	16:15	"	6.3 " "
Field:	29013	14 Aug. 1950	15:30 (Approx.)	"	2.5' " "
	29016	"	15:30 "	"	
	28894	"	15:00 "	"	

Tide (III)

Ratio of Ranges	Mean Range	Spring Range	
		8.0	*

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

Washington Office Review by (IV): Everett H. Ramey Date: 5 Jan 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~~ established (II): 1 Recovered: Identified: 1
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): None

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

M-2618-12 (4)

T-9733

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide *
38238	19 July 1952	16:14	1:20,000	6.2 above MLLW
38242, 243	"	16:20	"	6.3 " "
38265	"	16:42	"	6.4 " "
38297, 298	"	17:20	"	6.8 " "

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
		6.8 *

Reference Station: Kodiak)
Subordinate Station: Tachikuga)
Subordinate Station: Nash Harbor)
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~~ established (II): 2 Recovered: Identified: 2
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: *The tide data for all of Nunivak was computed by the Division of Tides and Currents, based on the three subordinate stations listed above.

M-2618-12(4)

T-9731

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 (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):
Planimetry W. Heinbaugh Date: July 1955
Contours Date:

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

Photogrammetric Office Review* by (III): J Battky Date: Aug 1955
Instrument Work sheets, only

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

M-2618-12(4)

T-9732

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 (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):
Planimetry W. Heinbaugh Date: July 1955
Contours Date:

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

Photogrammetric Office Review by (III): * J Battley Date: Sept 1955
*Instrument work sheets, only

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

M-2618-12(4)

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. Senasack Date: 12-15-54

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

Manuscript ~~[illegible]~~ scribed by (III): Date:

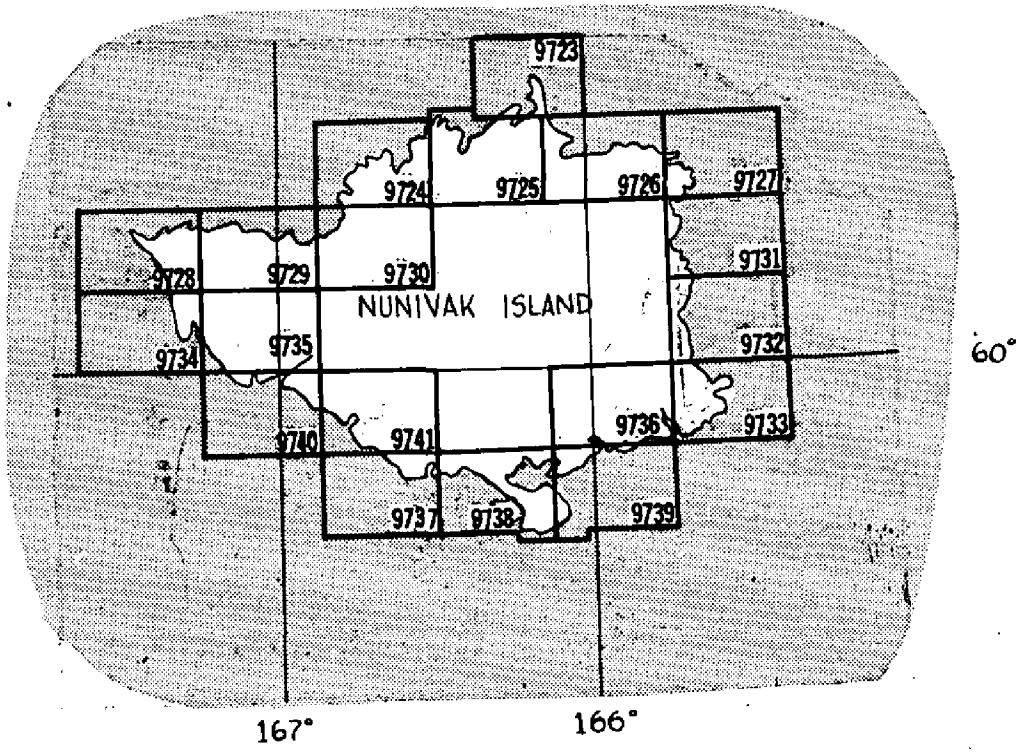
Photogrammetric Office Review by (III)*: L. Levin Date: Aug. 1955
*Instrument Work Sheets, Only

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

M-2618-12(4)

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

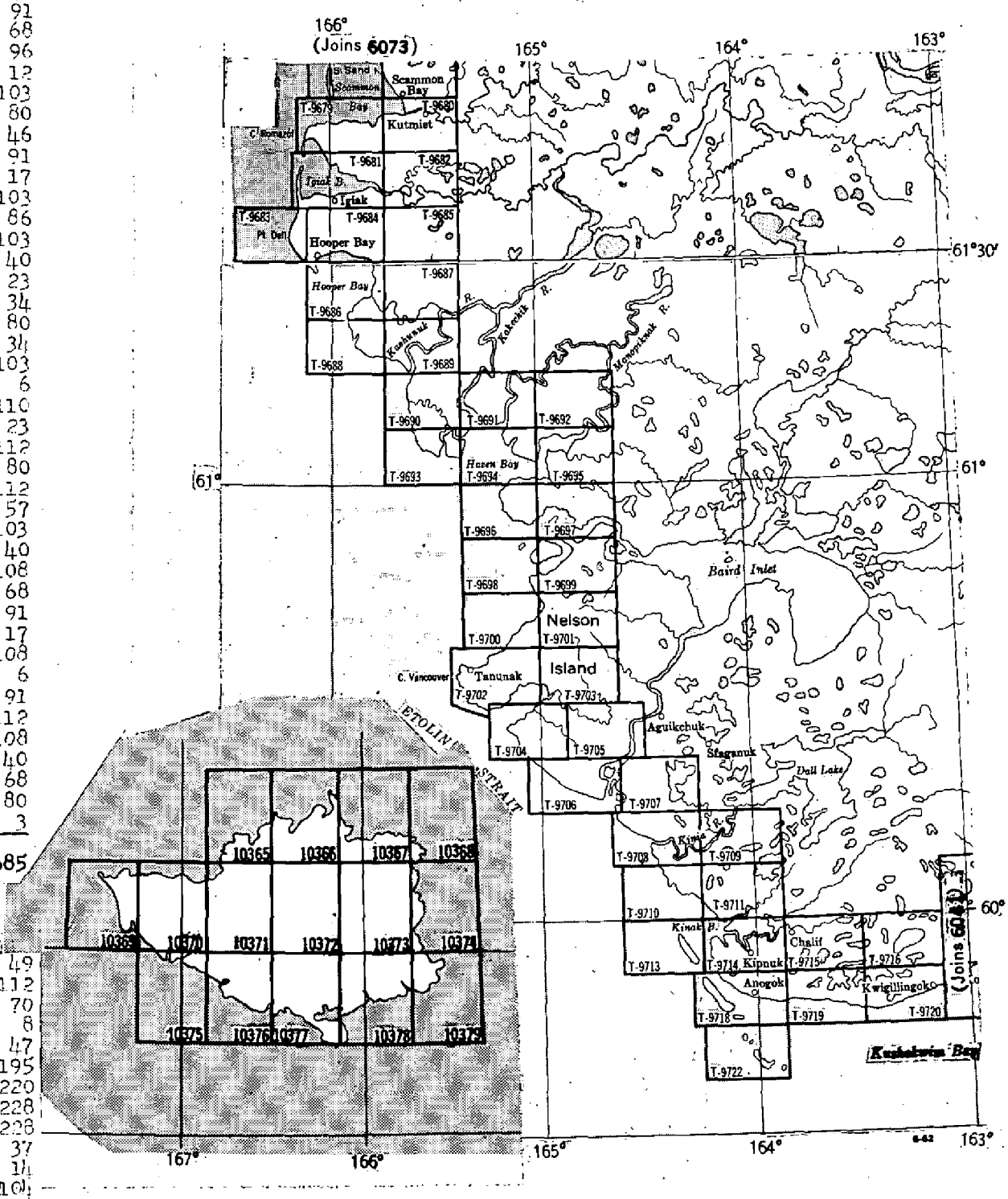
ALASKA-BERING SEA, Scammon Bay to Kuskokwim Bay and Nunivak Island

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No.	Area sq.miles
[illegible]	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
9[illegible]	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	104
10[illegible]	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-1).

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~~ cronar 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)

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T- ~~9733~~ 9731 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)
LEROY, 1951	Nunivak Island p. 7	N.A. 1927	60	11	51.028				1579.3	(277.7)		
			165	41	01.226				18.9	(905.6)		
Sub. Pt. A LEROY, 1951			60	11					1744.2	(1112.8)		
			165	40					875.0	(49.5)		
Sub. Pt. B LEROY, 1951			60	11					1446.2	(410.8)		
			165	41					183.1	(741.4)		
ROUND, 1951	Nunivak Island p. 7	N. A. 1927	60	08	25.546				790.6	(1066.3)		
			165	43	18.066				278.8	(647.3)		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 17 June 1954 CHECKED BY: J. Steinberg DATE 29 June 1954

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-~~9739~~ 9732 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)
TWIN, 1951	Nunivak Island p. 1	N.A. 1927	60	01	48.718				1507.8	(349.2)		
			165	42	50.330				779.4	(149.7)		
Sub. Pt. TWIN, 1951			60	02					870.1	(986.9)		
			165	41					130.3	(798.8)		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 15 June 1954 CHECKED BY: J. Steinberg DATE 29 June 1954

COMM-DC-57843

FORM 164
(4-23-54)

U.S. DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT

COAST AND GEODETIC SURVEY
CONTROL RECORD

MAP T-~~9945~~ 9733 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)
INGRA, 1951	Nunivak Island p. 7	N.A. 1927	59	58	35.91				1111.3	(745.6)		
			165	33	12.44				193.0	(737.7)		
Sub. Pt. INGRA, 1951			59	58					1202.1	(654.8)		
			165	33					94.8	(835.9)		
CHASE, 1951	Nunivak Island p. 6	N.A. 1927	59	55	08.998				278.5	(1578.4)		
			165	35	37.384				580.9	(351.4)		
Sub. Pt. A CHASE, 1951			59	55					205.9	(1651.0)		
			165	35					374.4	(557.9)		
Sub. Pt. B CHASE, 1951			59	55					294.8	(1562.1)		
			165	35					626.5	(305.8)		

1 FT. = .3048006 METER

COMPUTED BY: A. Queen DATE 15 June 1954 CHECKED BY: J. Steinberg DATE 29 June 1954

COMM-DC-57843

COMPILATION REPORT
T-9731-T-9733, inclusive

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 Nos. 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. EHR

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 sumbol was delineated.

37. LANDMARKS AND AIDS: ~~None located or recommended by field party.~~ Form 567 is resubmitted for one landmark on T-9739, superseding position furnished by field party on unadjusted datum

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. Junctions were effected during review. CMK

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 "Ahmikdoligamiut" (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

Louis Levin
Supervisory Cartographer
Nine-lens Unit

Approved and Forwarded:

Charles Theurer

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. Ramey
Everett H. Ramey

APPROVED BY:

L C Lande
Chief, Review & Drafting Section
Photogrammetry Division

May B Ricketts
Chief, Nautical Chart Branch
Charts Division

Chief, Photogrammetry Division
30 Dec '57

Chief, Coastal Surveys Division

Form 562
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Washington, D. C. 14 November, 1955

I recommend that the following objects which ~~have~~ *(have not)* been inspected from seaward to determine their value as landmarks be charted on ~~deleted from~~ the charts indicated.

The positions given have been checked after listing by L. Levin

N. E. Sylar (Field)
Chief of Party.

STATE			POSITION					METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
			LATITUDE*		LONGITUDE*		DATUM						
CHARTING NAME	DESCRIPTION	SIGNAL NAME	° ′	″ D.M. METERS	° ′	″ D.P. METERS							
TWIN	Southerly Pk of Twin Mtn.	TWIN	60 01	48.718	165 42	50.330	NA 1927	Triang. G 1057	1951			X	9302 9300

Supercedes position on chart letter 126-52 which was on unadjusted 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

M-2836-3

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.