9713
THRU
9716

Diag. Cht. No. 9302.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-56 *Office No.* T-9713 thru T-9716

LOCALITY

State Alaska

General locality Etolin Strait (Bering Sea

Locality Kikegtek Island to Vicinity

East of Kinak Bay

1950-52

CHIEF OF PARTY

M.J.Tonkel, Chief of Field Party
E.W.Kirsch, Balto. Photo. Office
~~L.W.Swanson, Div. of Photo. Wash., D.C.~~

LIBRARY & ARCHIVES

DATE December 1960

USCOMM-DC 5087

9713 THRU 9716

DATA RECORD

T-9713
T-9714
T-9715
T-9716

T

Project No. (II): PH-56 Quadrangle Name (IV):

Field Office (II): Alaska
Photogrammetric Office (III): Baltimore, Md. Washington, D. C.

Chief of Party: M. J. Tonkel
E. W. Kirsh
Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):
8 Sept. 1949
2 April 1951
21 May 1951
14 Dec 1951
21 Dec 1951

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Reading nine-lens plotter and graphic

Manuscript Scale (III): 1:20,000

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

Scale Factor (III): 1:1

Date received in Washington Office (IV):

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date:

Date registered (IV): 19 May 1959

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): State: Zone:

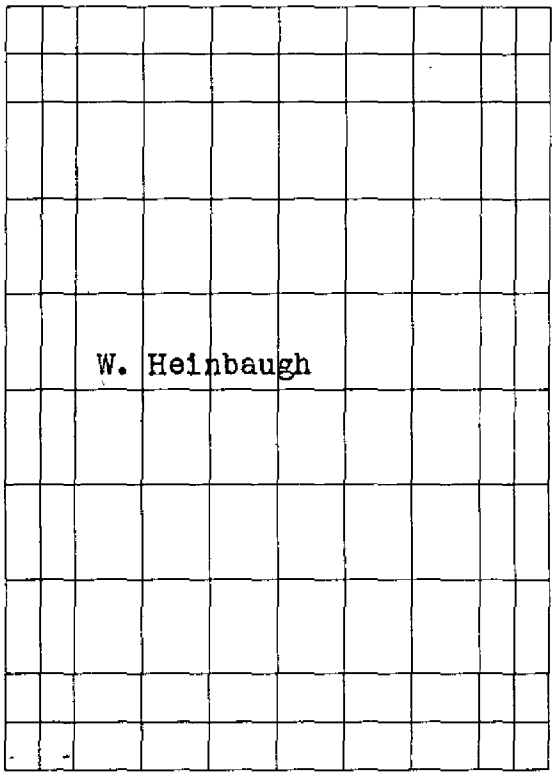
Y= X=

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)

T-9713 thru T-9716



Areas contoured by various personnel
(Show name within area)
(II) (III)

M-2618-12 (4)

DATA RECORD

Field Inspection by (II): V. E. Serena Date: May-Sept 1951

Planetable contouring by (II): Date:

Completion Surveys by (II): Date:

Mean High Water Location (III) (State date and method of location): From field inspection on nine-lens photographs

Projection and Grids ruled by (IV): Austin Riley Date: 10-18-54

Projection and Grids checked by (IV): Austin Riley Date: 10-26-54

Control plotted by (III): David Williams Date: 6-28-55

Control checked by (III): Joseph Steinberg Date: 6-28-55

Radial Plot ~~or Stereoscopic~~ XXXXXXXX Date: 2-21-58
Control extension by (III): Leroy A. Senasack

Stereoscopic Instrument compilation (III):
Planimetry W. Heinbaugh Date: Aug. 1958
Contours W. Heinbaugh Date: Aug. 1958

Manuscript delineated by (III): W. Heinbaugh Date: Aug. 1958

Photogrammetric Office Review by (III): L. Levin Date:

Elevations on Manuscript checked by (II) (III): L. Levin Date:

M-2618-12(4)

Camera (kind or source) (III): T-9713

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28699-28700	8/13/~~53~~ 50	*14.30	1:20,000	3.1 above MLLW
28698	8/13/~~53~~ 50	*14.25	1:20,000	3.0 above MLLW

*Approximate time - clock stopped

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
		8.5
1.3		11.0

Reference Station: Kodiak
Subordinate Station: none-general area
Subordinate Station:

Washington Office Review by (IV): S S Steffler Date: April 1959

Final Drafting by (IV): John H Fraser Date: Aug 19, 1959

Drafting verified for reproduction by (IV): Wm O Hallein Date: 10-5-59

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

Remarks:

M-2618-12(4)

T-9714

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28709-28710	8/13/50	*14:30	1:20,000	4.6 above MLLW
28548-28549	8/13/50	*12:20	1:20,000	3.6 above MLLW
28550-28553	8/13/50	*12:25	1:20,000	3.0 above MLLW
28695-28698	8/13/50	*14:20	1:20,000	3.0 above MLLW

* approximate time - clock stopped

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
		8.5
1.2		10.2

Reference Station: Kodiak
Subordinate Station: general area of sheet
Subordinate Station:

Washington Office Review by (IV): J.J. Stempfler — Date: April 1959

Final Drafting by (IV): John A. Fraser — Date: Sept 29, 1959

Drafting verified for reproduction by (IV): Wm O. Hallum — Date: 10-5-59

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

Remarks:

Camera (kind or source) (III): T-9715

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28707-28709	8/13/50	*14:30	1:20,000	4.6 above MLLW
38166-38169	7/19/52	14:45	1:20,000	3.2 above MLLW

*Approximate time - clock stopped

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
		8.5
1.1		9.4

Reference Station: Kodiak
Subordinate Station: none - general area
Subordinate Station:

Washington Office Review by (IV): H Stempler Date: April 1959

Final Drafting by (IV): John A. Frazier Date: ~~Sept 22, 1959~~ Dec 30, 1959

Drafting verified for reproduction by (IV): Wm O. Hallum Date: 3-2-60

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

Remarks:

M-2618-12(4)

T-9716

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
28284-28288	8/13/50		1:20,000	
38159-38152	7/19/52	14:30	1:20,000	6.7 above MLLW

Tide (III) Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
		8.5
1.1		10.2

Reference Station: Kodiak
Subordinate Station: none-general area
Subordinate Station:

Washington Office Review by (IV): [signature] Date: April 1959

Final Drafting by (IV): [signature] Date: Nov 18, 1959

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

Remarks:

M-2618-12 (4)

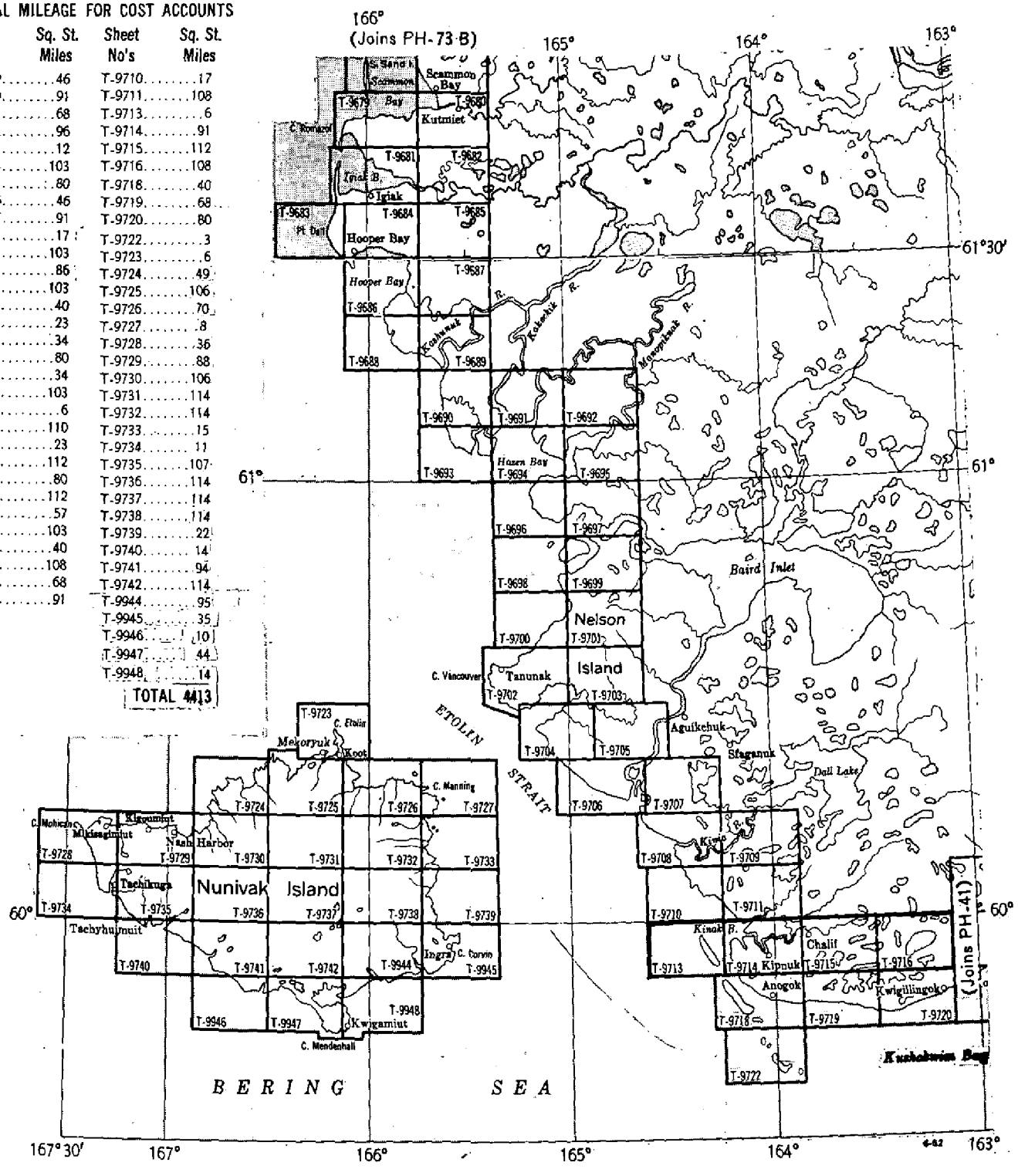
TOPOGRAPHIC MAPPING PROJECT PH-56

B

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

OFFICIAL MILEAGE FOR COST ACCOUNTS

Sheet No's	Sq. St. Miles	Sheet No's	Sq. St. Miles
T-9679	46	T-9710	17
T-9680	91	T-9711	108
T-9681	68	T-9713	6
T-9682	96	T-9714	91
T-9683	12	T-9715	112
T-9684	103	T-9716	108
T-9685	80	T-9718	40
T-9686	46	T-9719	68
T-9687	91	T-9720	80
T-9688	17	T-9722	3
T-9689	103	T-9723	6
T-9690	86	T-9724	49
T-9691	103	T-9725	106
T-9692	40	T-9726	70
T-9693	23	T-9727	8
T-9694	34	T-9728	36
T-9695	80	T-9729	88
T-9696	34	T-9730	106
T-9697	103	T-9731	114
T-9698	6	T-9732	114
T-9699	110	T-9733	15
T-9700	23	T-9734	11
T-9701	112	T-9735	107
T-9702	80	T-9736	114
T-9703	112	T-9737	114
T-9704	57	T-9738	114
T-9705	103	T-9739	22
T-9706	40	T-9740	14
T-9707	108	T-9741	94
T-9708	68	T-9742	114
T-9709	91	T-9944	95
		T-9945	35
		T-9946	10
		T-9947	44
		T-9948	14
		TOTAL	4413



Compiled at 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 topographic surveys T-9713 thru T-9716

These four surveys are part of Topographic Mapping Project PH-56 (24090). The project covers the coastal area from Scammon Bay southward to Kuskokwim Bay and Nunivak Island on the Bering Sea in Alaska. T-9713 thru T-9716 cover an area of ~~72~~ 71½ minutes of latitude and starting with an off-shore group of islands south of Kinak Bay known as Kikegtek Island runs eastward to longitude 163°07'30", which is a common junction line with project PH-41.

The area covered by subject surveys is low and inundated with marsh and tundra and interlaced with streams, lakes and ponds. The highest ground elevation is only 22 feet.

Project instructions originated in 1949. Nine-lens photography is from August 1950 and July 1952. Field inspection was accomplished during season of 1951 and the radial plot at the Baltimore District Office in 1958. During the latter part of 1958 subject surveys were compiled by stereoscopic instruments (Reading Plotter) and by graphic methods at the Washington Office.

There are no registered topographic surveys recorded nor are there any contemporary hydrographic surveys of this area.

A cronar film positive at the compilation scale of 1:20000 and the Descriptive Report will be registered and filed in the Bureau Archives.

April 1959

The Field Inspection Report is filed with the Descriptive Report for T-9679.

//

The Radial Plot Report is filed with the Descriptive Report for T-9718 thru T-9720

FORM 164 (4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T-9714 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)
KIPNUK ASTRO (USAF), 1949	IV p. 388	N.A. 1927	59 56 21.188			655.7 (1201.2)	
			164 02 24.310			377.5 (554.2)	
Sub. Pt. KIPNUK ASTRO (USAF),1949		"	59 56			667.9 (1189.0)	
			164 02			405.4 (526.3)	
VICUN, 1951	IV p. 378	"	59 54 49.733			1539.1 (317.8)	
			164 08 45.564			708.1 (224.4)	
Sub. Pt. "A" VICUN, 1951		"	59 54			1556.6 (300.3)	
			164 08			723.7 (208.8)	
Sub. Pt. "B" VICUN, 1951		"	59 54			1484.9 (372.0)	
			164 08			689.5 (243.0)	
KIPNUK, 1949	IV p. 378	"	59 56 21.490			665.1 (1191.8)	
			164 02 27.004			419.3 (512.4)	
Sub. Pt. "A" KIPNUK, 1949		"	59 56			668.2 (1188.7)	
			164 02			405.6 (526.1)	
Sub. Pt. "B" KIPNUK, 1949		"	59 56			616.4 (1240.5)	
			164 02			356.0 (575.7)	
KIPNUK N.E. BASE 1949	IV p. 378	"	59 57 22.100			684.0 (1172.9)	
			164 11 23.256			361.0 (570.3)	
Sub. Pt. "A" KIPNUK N.E., BASE		"	59 57			668.2 (1188.7)	
			164 11			423.9 (507.4)	
Sub. Pt. "B" KIPNUK N.D., BASE		"	59 57			663.1 (1193.8)	
			164 11			460.0 (471.3)	

1 FT = .3048006 METER

COMPUTED BY: J. Steinberg DATE 5/26/55 CHECKED BY: H. R. Rudolph DATE 6/8/55

COMM-DC-57843

FORM 164
(4-23-54)

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

MAP T- 9714 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)
KIPNUK S W BASE, 1949	IV p. 378	N.A. 1927	59 55 46.447 164 12 24.412			1437.5 (419.4) 379.2 (552.8)	
Sub. Pt. "A" KIPNUK SW BASE		"	59 55 164 12			1420.4 (436.5) 349.5 (582.5)	
Sub. Pt. "B" KIPNUK SW BASE		"	59 55 164 12			1440.7 (416.2) 338.2 (593.8)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE: 5/26/55 CHECKED BY: H. R. Rudolph DATE: 6/8/55

COMM-DC-57843

FORM 164
(4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 9715 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)
DRAKE, 1949	IV p. 377	N.A. 1927	59 53 45.410			1405.4 (451.5)	
			163 34 56.387			876.7 (56.2)	
Sub. Pt. DRAKE, 1949		"	59 53			1388.9 (468.0)	
			163 34			840.0 (92.9)	
RICE, 1949	IV p. 377	"	59 54 10.229			316.6 (1540.3)	
			163 45 49.111			763.5 (169.3)	
Sub. Pt. RICE, 1949		"	59 54			86.2 (1770.7)	
			163 45			750.3 (182.5)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 6 June 1955 CHECKED BY: H. R. Rudolph DATE 8 June 1955

COMM-DC-57843

FORM 164
(4-23-54)

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

DESCRIPTIVE REPORT — CONTROL RECORD

MAP T- 9716 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)
FLUFF, 1949	IV p. 377	N.A. 1927	59 54 45.103			1395.9 (461.0)	
			163 22 47.998			746.0 (186.5)	
Sub. Pt. FLUFF		"	59 54			1380.1 (476.8)	
			163 22			794.5 (138.0)	
SNARE, 1949	IV p. 377	"	59 56 27.868			862.5 (994.4)	
			163 14 56.992			885.0 (46.7)	
Sub. Pt. SNARE, 1949		"	59 56			907.4 (949.5)	
			164 14			922.0 (9.7)	
KANE, 1949	IV p. 376	"	60 00 23.556			729.0 (1127.9)	
			163 10 14.659			227.2 (702.7)	
Sub. Pt. KANE, 1949		"	60 00			914.5 (942.4)	
			163 10			262.1 (667.8)	
ANOGOK, 1949	IV p. 377	"	59 53 11.148			345.0 (1511.9)	
			163 29 54.690			850.6 (82.6)	
Sub. Pt. ANOGOK, 1949		"	59 53			332.1 (1524.8)	
			163 29			885.5 (47.7)	

1 FT. = .3048006 METER

COMPUTED BY: J. Steinberg DATE 6/7/55 CHECKED BY: H. R. Rudolph DATE 6/8/55

COMM-DC-57843

COMPILATION REPORT

T-9713, T-9714, T-9715, T-9716

31. Delineation

The Reading nine-lens plotter was used to draw shoreline and to obtain elevation above sea level with the balance of the details being drawn by graphic methods using rectified nine-lens photographs.

No field inspection was obtainable for any inland area except in the vicinity of Kipnuk.

32. Control

See Radial Plot Report for horizontal control.

No field established vertical control was used for control of the models on the Reading plotter. The elevations of the triangulation stations as shown on the List of G.P.s were found to be 6-8 feet above the elevations read on the Reading plotter. Because of the numerous tidal streams & lakes available for leveling the models, the instrument elevations were shown on the manuscript. (See Radial Plot Report T-9704 thru T-9710 for a discussion of this discrepancy).

33. Supplemental Data

Tri-Met photos nos. 46 1-V53, 46 1V-56

34. Contours and Drainage

No comment

35. Shoreline and alongshore details

Although proper tide stage photographs were not available, an attempt was made to interpret the approximate low-water line in Kinak Bay from the lowest tide stage photographs available (3 ft above MLLW).

36. Offshore details

No comments

37 Landmarks and aids

Field party lists one landmark SPIRE, church at Kipnuk, (T-9714). The position was scaled from the manuscript and forwarded to Nautical Chart Division.

38. Control for future surveys

The following photo topo station was established:

FATE 1951 T-9714

No hydro stations were established.

A list of topographic stations has been prepared and entered in paragraph 49 of this report.

39. Junctions

All sheet junctions were made on all adjoining sheets as indicated by the project layout diagram included in this report.

40. Horizontal and vertical accuracy

See Radial Plot Report and paragraph 32.

46. Comparison with existing maps

~~USGS map, Baird Inlet, Alaska, N-6000-W16200/60x180, 1:250,000, 1951 Edition~~
USGS map, Kuskokwim Bay, Alaska, N5900-W16200/60x180, 1:250,000, 1951 Edition

47 Comparison with nautical charts

Manuscript was compared with chart 9302.

Items to be applied to nautical charts immediately - none

Items to be carried forward - none

48. Geographic name list

See appended name lists.

Approved

Louis Levin
Supervisory Cartographer

Submitted

Wallace Heinbaugh
Cartographer (Photo)

Form 567
April 1945

DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

Washington, D. C. 12 November, 1958

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 ~~W. Heinbaugh~~ ~~L. Levin~~ Chief, Nine lens steno. unit ~~Chief of Party~~

STATE Alaska

CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE * ° ′	LATITUDE * ″ D.M. METERS	LONGITUDE * ° ′	LONGITUDE * ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
SPIRE	Church, Kipnuk		59 56	706	164 02	315	NA 1927	Radial plot	1951			x	9302
	This landmark was previously submitted by field party without a position (chart letter no 129 1952)												

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.

Comm-DC 61327

Review Report of
Topographic Surveys T-9713 thru T-9716
April 1959

62. Comparison with Registered Topographic Surveys:

There are no registered topographic surveys of this area.

63. Comparison with Maps of Other Agencies:

KUSKOKWIM BAY, ALASKA, 1:250000, Ed. of 1951, US Geological Survey

This reconnaissance topographic survey shows KIKEGTEK ISLAND as one, about 4 statute miles west of the west shore. T-9713 and T-9714 of subject surveys places this island as a group of several and approximately 3 3/4 statute miles west of the west coast. This is the only notable difference that scale difference permits to disclose.

64. Comparison with Contemporary Hydrographic Surveys:

None!

65. Comparison with Nautical Charts:

9302 1:1534076 Revised to 9/29/58

In reference to the disagreement mentioned under item no. 63 concerning KIKEGTEK ISLAND, the above listed nautical chart portrays this island differently yet. However, for a sailing chart of stated scale such disagreement is far from being critical.

66. Adequacy of Results and Future Surveys:

These surveys comply with project instructions and meet the requirements for adequacy and accuracy.

Reviewed by

Joseph J. Streifler
Joseph J. Streifler

Approved by:

L C Lounds
Chief, Review & Drafting Section
Photogrammetry Division

J E Waugh 12/27/60
Chief, Nautical Chart ~~Branch~~
~~Charts~~ Division

L W Swanson
Chief, Photogrammetry Division
22 Nov 1960

J. Bowie
Chief, ~~Coastal Surveys~~ Division
OPERATIONS.

T-9713

Geographic Name List

Bering Sea

Etolin Strait

Kikegtek Island

Kinak Bay

Names approved 1-20-59
L. Heck

T-9714

Geographic Name List

Kinak Bay

Kinak River

Kipnuk

Koguklik River

Names approved 1-20-59
L. Heck

T-9715

Geographic Name List

Koguklik River

Names approved 1-20-59
L. Heck

NAUTICAL CHARTS BRANCH

SURVEY NO. T-9713 thru T-9716

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.