# 11527 THRU 11531

#### Porm 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

# DESCRIPTIVE REPORT

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USCOMM-DC 5087

#### DATA RECORD

#### T-11527 through T-11531

PH-34

Project No. (II): 21050

Quadrangle Name (IV):

Field Office (II): Ship Explorer

W.H. Bainbridge
Chief of Party: E.H. Kirsch

Photogrammetric Office (III): Washington, D. C.

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III): Proj. Instructions

Supp. Instructions Supp. Instruction

Compilation Instructions

16 Dec. 1954 Copy filed in Division of

10 Nov. 1955 Photogrammetry (IV) 1 Oct. 1956 Office Fi

Office Files

5 Nov. 1957

Method of Compilation (III): Graphic

Contours:

Manuscript Scale (III): 1:20.000

Reading Nine Lens Plotter Stereoscopic Plotting Instrument Scale (III): 1:20,000

Scale Factor (III): 1.0

Date received in Washington Office (IV): 4-8-58 Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as  $(\underline{5})$  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

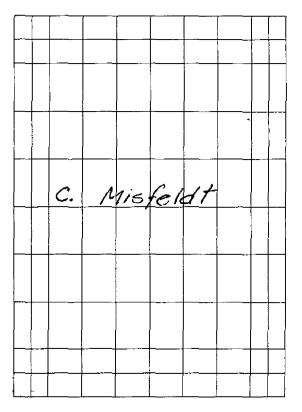
State: Alaska Zone: I

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Form T- Page 1

M-2618-12(4)



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

#### DATA RECORD

Field Inspection by (II): M.H. Bainbridge

Date: May-June 1953

Planetable contouring by (II):

None

Date:

Completion Surveys by (II):

None

Date:

Mean High Water Location (III) (State date and method of location):

Identified on photographs taken 1953 and 1954 using predicted tides.

Projection and Grids ruled by (IV):

J. Chaconas

1 Nov. 1956

Projection and Grids checked by (IV): H. Wolfe

7 Nove 1956 Date:

Control plotted by (III):

H. Lucas

4 Jan. 1957 Date:

Control checked by (III):

G. Amburn

5 Jan. 1957

Radial Plot or Stereoscopic

Control extension by (III):

J. P. Battley, Jr.

Date: 30 Apr. 1957

Planimetry

Date:

Stereoscopic Instrument compilation (III):

C. Misfeldt W. Heinbaugh.

1960 - 1969. Date: May

T-11527 - G. Amburn Manuscript delineated by (III):

T-11528 - G. Amburn T-11529 - J. Battley T-11530 - G. Amburn

14 May 7 May 10 May

T-11531 - R. Sugden Photogrammetric Office Review by (III): E. Ramey , shadine

Date:

K.N. Maki, Contours

Elevations on Manuscript

checked by (II) (III):

Date:

Camera (kind or source) (III): C&GS Nine-lens

		PHOTOGRAPHS (	III)	,
Number	Date	Time	Scale	Stage of Tide
42007-11 42013-18 42020-26 42029-33	21 Sept 1953 21 Sept 1953 21 Sept 1953 21 Sept 1953	1540-4 1550-5 1603-7 1612-5	1:20,000 1:20,000 1:20,000 1:20,000	2.4 a bove MLW 2.4 2.4 2.4 2.4

Tide (III)

Sweeper Cove, Adak I.

Subordinate Station: Nazan Subordinate Station:

Reference Station:

Final Drafting by (IV):

Proof Edit by (IV):

Nazan Bay, Atka I.

Washington Office Review by (IV): K.N. Maki

Trading Con Control by (11).

Drafting verified for reproduction 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):

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Diurnal

Ratio of Ranges		Spring Range
	3.7	
	3.3	
	<del></del>	_

Date: July 1971

Date:

Date:

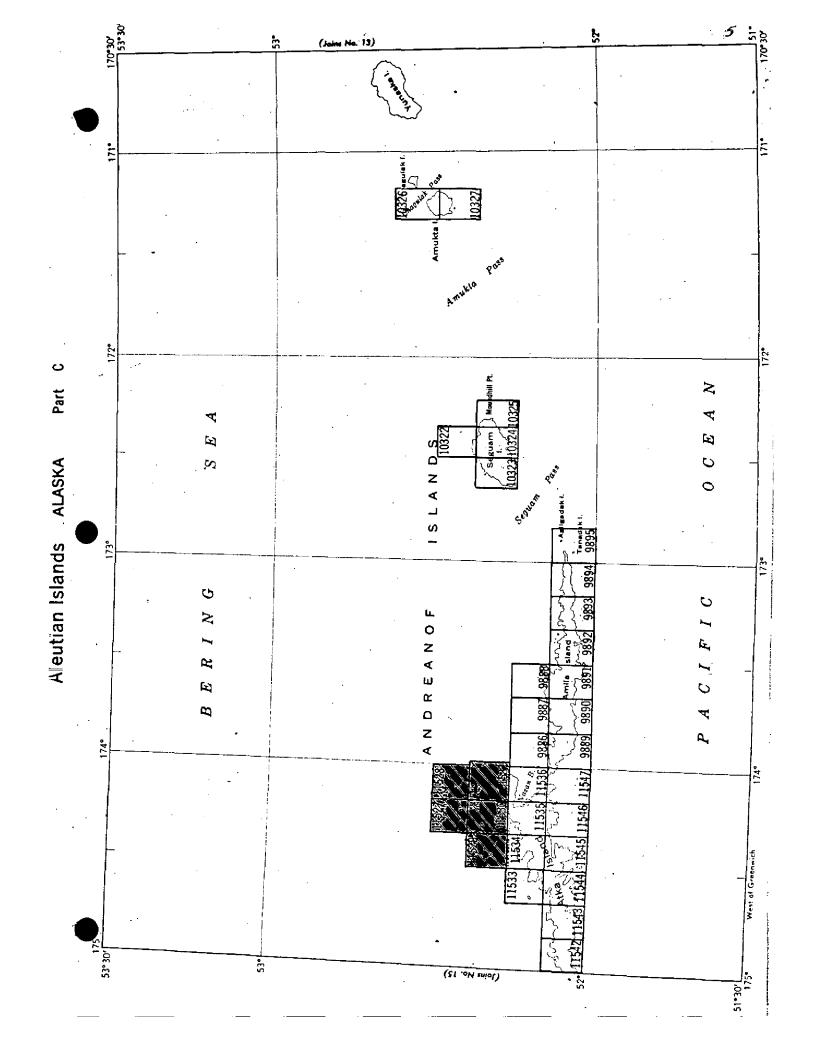
Date:

Identified:

Identified:

Recovered:

Recovered:



# Summary to Accompany Descriptive Report T-11527 through T-11531

Topographic maps T-11527 through T-11531 are a series of five maps covering a part of PH-34, Part C, Andreanof Island group, Aleutian Islands, Alaska. These five maps cover the area of Atka Island from latitude 52° 15° to latitude 52° 30° and include the island's northernmost extremity of North Cape. East-west coverage extends from longitude 173° 59°, Cape Shaw to longitude 174° 30°, Cape Korovin.

The field operations preceding compilation were limited to the recovery of horizontal control and the determination of elevations to control the nine-lens stereoplotter project vertically. The few field inspection notes were restricted to general descriptions of foreshore and beach characteristics.

The nine-lens compilation of contours was preceded by a graphic compilation of shoreline, foreshore and offshore features for hydrographic survey needs based on the field recovery of horizontal control with little or no field inspection of shoreline and related features.

Contours were compiled, for the most part, on the Reading nine-lens stereoplotter. Several areas on T-11531 that were left uncontoured after the dismantling of the last or second Reading nine-lens stereoplotter were completed on the Wild A-7 Autograph. The contour interval is 50 feet with a first 25 foot contour where contour spacing permitted and where better expression of near shore terrain configuration could be obtained.

The registered copies under T-11527 through T-11531 will consist of one cronaflex positive of each of the five maps and a single combined Descriptive Report.

#### Photogrammetric Plot Report Project 24050 (Aleutian Island) Atka Island

#### 21. Area Covered.

This report discusses the photogrammetric plot for five surveys numbered T-11522/through T-11531 all at a scale of 1:20,000. These surveys cover the Northeastern part of Atka Island. The five manuscripts are incomplete pending field inspection of details.

#### 22. Method.

The plot was laid on vinylite manuscripts ruled with polyconic projection and UTM 1000-meter grid. The grid lines were used to junction the manuscripts.

Metal-mounted nine-lens photographs taken in 1953 and 1954 were used in the plot. Master calibration templets. A paper print for each photograph in the plot was prepared with pass points and radial lines for field use.

The attached sketch shows photographs, control stations and tolerances in positions for the plot. The plot is considered accurate in position in its entirety and junctioned satisfactory with a previous plot to the South.

#### 23. Adequacy of control.

Triangulation stations were identified in the field in 1953 on U. S. Navy single-lens photographs at an approximate scale of 1:25,000 taken in 1951. The distribution of control is shown on the appended sketch.

Eighteen field-identified control stations were used to control the plot. Of these, 16 held within 0.3 mm and two could not be held and are discussed below:

Spot 1943 sub. sta. (0.35 mm E of plotted position). This station fell 0.4 mm S.E. of plotted position in the previous plot. With the additional control and stronger fix the station held closer in this plot but was still considered doubtful in identification. Other better indentified control held nearby.

Razor 1953 sub. sta. (0.6 mm N.W. of plotted position). The position of this station was determined by traverse computations. The field notes were not available but either an error in the field data or in the field photograph identification is suspected as numerous nearby well-defined stations held.

#### 24. Supplemental Data.

None

#### 25. Photography

The photography was considered adequate as to coverage and overlap. A few of the photographs were tilted, but only one photograph, 42014, was tilted enough to necessitate computing a new center. There were not enough points of known elevation to determine the tilt. A good radial intersection was obtained in the plot for this center, and was drilled and rung up on the manuscript. Field-identification of vertical control should furnish enough positions to determine the tilt and the photograph could then be added to the plot.

Submitted by:

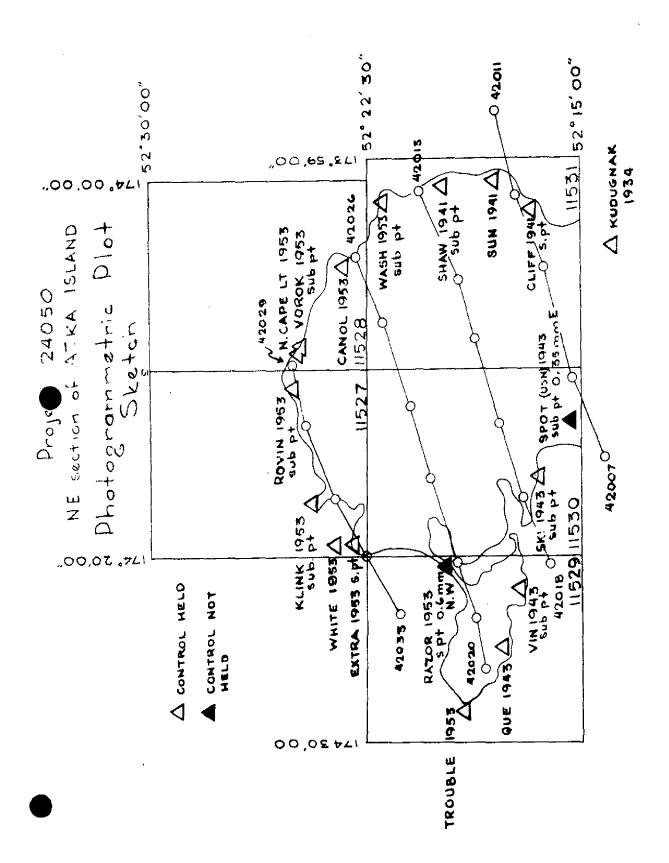
J.P. Battley Jr.

Cartographer

Approved by:

E. Ramey

Supervisory Catographer



MAP T. 11527		PROJE(	PROJECT NO. PH-34	SCALE OF MAP 1:20,000	000,00	SCALE FACTOR	JR.
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	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)
Extra, 1953	v 816	N.A.	52-22-37.868 17h-19-51.597			1170.5 684.1 976.1 159.0	
Klink, 1953	E	=	89 1				
Rovin, 1953	=	E	52-25-02.508				
~ <u>~</u>	V 81.7	ŧ	52-23-02-144				
Extra S.S. 1953	· · · · · · · · · · · · · · · · · · ·	=	52-22				
Rovin S.S. 1953	~	<b>=</b>	52-25				
Klink S.S. 1953	~	£	52-24 174-16			620.4 1234.2 902.1 232.1	
	-						
1 FT 3046006 METER COMPUTED BY: G. Anburn	Amburn		DATE February 1957	CHECKED BY: G . B . U	. W111ey		DATE February 1957 S

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	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS GRACK)	(TUM FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS (BACK) FORWARD (BACK)
Nonth Cone	V	N. A.	52-25-08-61			, L	ν
Light, 1953	817	1927	174-08-58.05				36.8
Vorok mp No.1	Δ	±	52-25-09.70			15	0
1953	816		174-08-39-12				9*
	=	48	52-25-00-725			~	5
Vorok, 1953			174-08-45:605			'	
		11	52-23-25.319			1	0
Canol, 1953			174-04-11.707				
Vorok, 1953		- 44	52,25				
Sub. Pt.			174-08			882.3 251	7.
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				-			
1 FT.=.3048006 METER	A 22.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2		, , , , , , , , , , , , , , , , , , ,				M · 2388-12
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FORM **164** (4-23-54)

DESCRIPTIVE REPORT U.S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY CONTROL RECORD

DISTANCE
FROM GR.D OR PROJECTION LINE
FROM GR.D OR PROJECTION LINE
IN METERS (BACK) FORWARD SCALE FACTOR 724.3 998.7 1275.6 477.8 629.6 1612.0 1058,7 1275.4 841.7 1100.6 1112.9 821.4 1070.1 173μ.7 700,7 720.3 21.8.1 N.A. 1927 - DATUM FORWARD 436.5 412.2 795.9 579.2 35.8 47.9 67.1 119.9 9.659 1225.0 24.3 212.6 855.9 579.0 1033.2 461:1 2911.7 1570.3 1606.1 343.7 DATUM SCALE OF MAP 1:20,000 OR PROJECTION LINE IN METERS DISTANCE FROM GRID IN FEET, (BACK) FORWARD PROJECT NO PH-34 ONGITUDE OR x-COORDINATE LATITUDE OR #-COORDINATE 52-16-51:962 52-17-03.880 174-22-34:792 52-17-39,632 174-25-01.282 52-19-07,850 174-22-03.537 174-27-21.762 174-25-23,033 52-19-18,738 174-27-15.559 52-17-33-427 52 18 11,121 174 26 38.702 52-19-27.69 52-19-25.75 174-27-21.97 174-20-01.89 52-16 174-22 52-19 DATUM 1927 N.A. Ξ = = = = = = SOURCE OF ν 145 V816 (INDEX) 145 152 152 816 817 = = > > MAP T. 11529 Outer Rock off 1953 Cape Korovin Korovin, 1943 Trouble, 1953 Trouble, 1953 Nivor, 1953 Razor, 1953 STATION 1943 1943 Vin, 1943 Miss 1943 Sub. Sta. We, 1943 Vin, Que,

COMM- DC. 57843

DATE February 1957

CHECKED BY G. B. Willey

February 1957

DATE

TT.=.3048006 METER AMBULPH COMPUTED BY G. AMBULPH

52-19 174-19

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Traverse Comp.

Razor, 1953

Sub. Pt.

Sub. Sta.

174-27

=

532.7

1321.9

293.h.

463.4

672.9

MAP T. 11530		PROJEC	PROJECT NO. PH-34	SCALE OF MAP 1:20,000	000,0	SCAL	SCALE FACTOR	R
STATION	SOURCE OF INFORMATION (INDEX)	ратим	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	DATUM ICE DIECTION LINE ERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN WETERS FORWARD (BACK)
Peak 1, 1934	V 1lllA	N.A.	52-16-43.99			1359.7	182.6	
Peak 2, 1934	E	=	52-16-46.45 174-10-31.04			1435.7	1,18.8	
реак 12, 1934	=	5.	52-16-45.60			1409.5 815.0	145.0	
Sk1, 1943	ν 145	<b>#</b>	52-16-29.213 174-15-53.760			902.9	951.6	
Spot, 1943	=	=	52-15-24.314 174-12-22.427			751.5 1.25.1	1103.0	
Dan, 1943	051 150	=	52-15-10.998 174-16-52.604				1511.6	
Ski, 1943 Sub. Sta.		#	52-16			903.1	951.4 89.5	
Snot, 1943 Sub. Sta.		=	52-15 174-12			760.2	1094.3	
1 FT.=,3048006 METER COMPUTED BY AMBULL		PAG	DATE February 1957	CHECKED BY. G.	B. Willey		Te Febr	DATE February 1957 &

MAP T. 11531	3.1		PROJECT NO. PH-34	SCALE OF MAP 1:20,000	000,	SCAL	SCALE FACTOR	R
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	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	- DATUM ACE OJECTION LINE ERS (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Sun, 1941	.v 76	N.A. 1927	52-18-03.955 173-59-26.574			122.2 503.6	1732.4 633.4	
Cliff, 1941	. =	=	52-16-23.849 174-01-28.488			737.1 540.2	1117.11 597.0	
Peak 4, 1934	ν 144Α	Ξ	52-17-03.11 174-09-53.76			1.96	1758.5	
Реяк 6, 1934	11	±	52-17-54.21			1675.6	179.0	
Peak 7, 193h	11	=	52-16-25.23			8.4778 874.0	10711.8	
Реяк 8. 1931	п	=	52-17-10.62 174-06-39.87			328.3	1526.3	
Peak 9, 1934	н	=	52-16-31.55			975.2	879.4	
Peak 10, 1934	=	=	52-15-56.97 174-05-34.79			1760.9	93.7	
Peak 11, 1934	т.	=	52-15-38,17			1179.8	671.8	
Wash, 1953	.v 816	#*	52-21-36.326			1122.8	731.8	
					-			
		•						
1 FT.=.3048006 METER COMPUTED BY. G. Amburn	ıburn	DA	DATE February 1957	CHECKED BY G . B. Willey	. Wille		4TE Febr	DATE February 1957

STATION   Superior   Communication   Communi			300		SCALE OF MAP = = = 1 × 5	22212	SCALE LACION.	۳
\$ta.   1941   N.A.   52-16   TORWARD   GARCO   TORWARD   Sta.   1941   N.A.   52-16   S.S.   118.4   S.S.   1941   N.A.   122-19   S.S.   1941   N.A.   122-19   S.S.   1941   N.A.   123-19   S.S.   1941   N.A.   19		SOURCE OF		LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		N.A. 1927 - DATUM DISTANCE FROM GRED OR PROJECTION LINE	
Sta.   Sta.   N.A.   52-16   736-1   1118.4								
8.5., 19th 75 17th-01 577.5 600.2  8.5., 19th 75 173-59 43.998 816.th 370.2  8.5., 19th 1 173-59 170.th 165.th 166.th 173-59 173-59 600.8 536.th 1	•		N.A.	52-16				
8.5. 1941 75 " 52-19 08.126 251.2 1603.4 320.2 3	S		1927	174-01				
8.5., 1941 75 173-59 48.08% 816.4 320.2 8.5., 1941 " 52-19 297.1 1557.5 5.5., 1941 " 74-00 669.1 146.4 5.5., 1941 " 73-59 600.8 536.1  173-59 600.8 536.1  173-59 600.8 536.1  173-59 600.8 536.1  173-59 600.8 536.1		^	=					
8.5., 19th  S.5., 19th  ", 52-21  1108.3  746.3  S.5., 19th  ", 52-21  1108.3  746.3  669.1  466.4  660.6  536.1  173-59  600.6  536.1  173-59  600.6  536.1  February  February  103-59  100-1057	- 1	75				İ		
8.5. 19hl			**	52-19	1			
5.5., 1941 "	8,8,		:	173-59				
S.S., 1941				52-21				
S.S., 1941 " 52-18 179.4 1675.2 600.8 536.1	8.8.			174-00				
S.S., 1941  173-59  600.8  536.1  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59  173-59				52-18	,			
Amburn Robert 1067	S.S.,			173-59				
Amburn Fohmmer 1067								
Amburn February 1067								
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#### COMPILATION REPORT T-11527 thru T-11531

#### 31. Delineation:

Shoreline and foreshore features were delineated from stereoscopic interpretation of nine-lens photographs at 1:20,000 scale without benefit of field inspection.

#### 32. Control:

See the attached radial plot report.

## 33. Supplemental Data:

None

#### 到. Contours and Drainage:

Sufficient field determined elevations combined with water level datum were available to control the vertical datum for compilation of contours. Areas not fully visible because of cloud cover are depicted by approximate dashed line contours, on T-11531.

# 35. Thru 38:

Not applicable

## 39. Junctions:

Manuscripts junction to the south with T-11534 thru T-11536 and between each other on all east-west junctions and all north-south junctions.

# 40. Horizontal and Vertical Accuracy:

- a. Horizontal No deficiencies were detected.
- b. Vertical -

# 41. Thru 45:

Not applicable.

# 46. Comparison with Existing Maps:

No. 9010 scale 1:20,000 first edition 1935, corrected 9/3/51 No. 8862 scale 1:300000 first edition 1943, corrected 10/15/51

Items to be applied to charts immediately. None Items to be carried forward. None

Submitted by:

Garnett S. Amburn

Approved:

Everett H. Ramey, Chief Graphic Compilation Unit

# 48. Geographic Name List

### T-11527

Atka Island — Bering Sea —

#### T-11528

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Atka Island

Bering Sea —

North Cape —

Korovin Volcamo

#### T-11529

Atka Island —
Bering Sea —
Cape Korovin —
Korvin Bay

#### T-11530

Atka Island -Bering Sea -Korovin Bay -

# T-11531

Atka Island Bering Sea — Cape Shaw L

Names approved July 22, 1971 Joseph Mifrichett Review Report
T-11527 through T-11531
Topographic Maps
July 1971

#### 61. General Statement

The completion of the five topographic maps, T-11527 through T-11531, was accomplished in 1969. Shoreline compilation was completed in May 1957. Once the need for shoreline topography for support of hydrographic surveys had been fulfilled, work on compilation of contours became intermittant. The dismantling of the last of the two Reading nine-lens stereoplotters in 1965 caused a delay until 1967, when compilation of contours, originally begun and nearly completed with the nine-lens plotter, was resumed with the Wild A-7 Autograph stereoplotter. This was made possible by the photographic reduction of the nine-lens photographs to accommodate the 9 x 9 inch format of the A-7 plotter.

# 62. through 65. Comparison With Other Surveys

The map manuscripts were compared with all prior registered topographic surveys, maps of other agencies, contemporary hydrographic surveys and nautical charts during compilation. Discrepancies and conflicts between the map manuscripts and the prior surveys were resolved at the time comparisons were made.

# 66. Adequacy of Results and Future Surveys

Shoreline and related features are considered to be delineated adequately, although field work was limited almost entirely to photo identification of horizontal and vertical control. Note Item 34, p.16 on cloud cover.

Reviewed by:

K. N. Maki

Approved by:

Charles Theurer, Chief Photogrammetric Branch

hotogrammetric Branch Coastal Mappin

Jack E. Guth, Chief Coastal Mapping Division