

11535 & 11536

11535 & 11536

Form 504	
U. S. DEPARTMENT OF COMMERCE	
COAST AND GEODETIC SURVEY	
DESCRIPTIVE REPORT	
Type of Survey	Topographic
Field No.	T-11535 & T-11536
Office No.	T-11536
LOCALITY	
State	Alaska (Aleutian Islands)
General locality	Andreanof Islands
Locality	Atka Island
19 53-54	
CHIEF OF PARTY	
W. H. Bainbridge, Chief of Party	
L. W. Swanson, Washington Office	
LIBRARY & ARCHIVES	
DATE	

DATA RECORD

T - 11535, T-11536

Project No. (II): PH-34

Quadrangle Name (IV):

Field Office (II): Ship PIONEER

Chief of Party: W. H. Bainbridge

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

Officer-in-Charge: L. W. Swanson

Instructions dated (II) (III):

Project Instructions 16 Dec. 1954

Supplemental Instructions 10 Nov. 1955

Supplemental Instructions 1 Oct. 1956

Compilation Instructions 5 Nov. 1957

Copy filed in Division of
Photogrammetry (IV)

Office files

Method of Compilation (III): Graphic

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

Manuscript Scale (III): 1:20,000

Scale Factor (III): 1.0

Date received in Washington Office (IV):

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):

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: Alaska

Zone: 1 and 2

Y=

X=

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

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

DATA RECORD

Field Inspection by (II): W. H. Bainbridge
(control only)

Date: June 1953

Some field inspection in head of Nazan Bay
on Navy metrogon photography.

Planetable contouring by (II): None

Date:

Completion Surveys by (II): None

Date:

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

Interpretation on 1953-54 photographs

Projection and Grids ruled by (IV): Joan Chaconas

Date: 11-2-56

Projection and Grids checked by (IV): Howard Wolfe

Date: 11-7-56

Control plotted by (III): G. Amburn

Date: Jan. 1957

Control checked by (III): H. Lucas

Date: Jan. 1957

Radial Plot or Stereoscopic

Date: 2/21/67

Control extension by (III): J. Battley, Jr.

Planimetry

Date:

Stereoscopic instrument compilation (III):

Contours C. Misfeldt
V. E. McNeel

Date: 1960-1969

Manuscript delineated by (III): H. Lucas - T-11535
G. Amburn - T-11536

Date: March 1957

Photogrammetric Office Review by (III): E. Ramey (shoreline
L. Levin (contours)
K. N. Maki (contours)

Date: May 1958
May 1960
May 1971

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

L. Levin (contours)
K. N. Maki (contours)

Date: 1960
1971

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

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
T-11535 42006	9/21/53	1540	1:20,000	2.4' above MLLW
42007	"	1540	"	2.4' above MLLW
42008	"	1541	"	2.4' above MLLW
45997	9/6/54	1529	"	2.5' above MLLW
45998	"	1530	"	2.5' above MLLW
T-11536 45966	9/6/54	1246	"	1.5' above MLLW
45970	"	1246	"	1.5' above MLLW
45976	"	1255	"	1.6' above MLLW
45999-46001	"	1331	"	1.8' above MLLW
46003	"	1335	"	1.8' above MLLW

and U.S. Navy Photography dated July 21, 1951

Tide (III)

Reference Station: Sweeper Cove, Adak Island

Subordinate Station: Nazan Bay

Subordinate Station:

Ratio of Ranges	Mean Range	Spring Range
	3.7	
0.9	3.3	

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

Date: Sept. 1971

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:

Identified:

Number of BMs searched for (II):

Recovered:

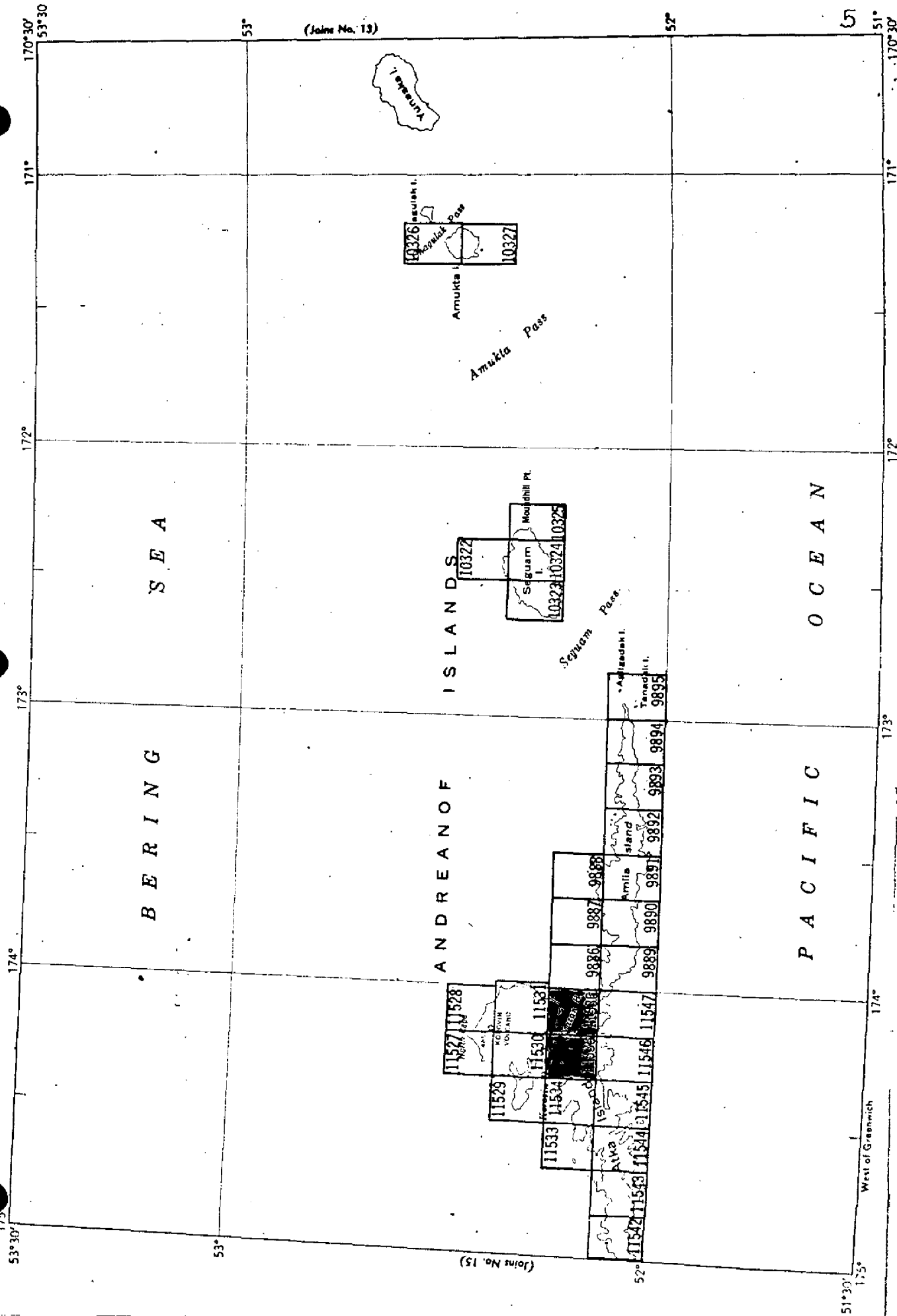
Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:

Aleutian Islands ALASKA Part C



Summary to Accompany Descriptive Report
T-11535 and T-11536

Topographic maps T-11535 and T-11536 are two maps covering a part of PH-34, Part C, Andreanof Island group, Aleutian Islands, Alaska. These two maps cover the area of Atka Island from latitude $52^{\circ} 07' 30''$ to latitude $52^{\circ} 15'$ and from longitude $174^{\circ} 00'$ to longitude $174^{\circ} 20'$. The westerly map, T-11535, includes Nazan Bay, Atka, Korovin Bay and the easterly map, T-11536, includes the NW end of Amlia Island, Nazan Bay and Cape Kudugnak on Atka Island.

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-11535 and T-11536 that were left uncounted 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 better expression of near shore terrain configuration could be obtained.

The registered copies under T-11535 and T-11536 will consist of one cronaflex positive of each of the two maps and a single combined Descriptive Report.

PHOTOGRAMMETRIC PLOT REPORT

This report covers the plot for surveys T-11533 through T-11536 and T-11544 through T-11547. It is filed as part of the Descriptive Report for T-11533.

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

MAP T-11535 PROJECT NO. PH-34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR λ -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
Is, 1943	V 150	N.A. 1927	52-11-11.113 174-15-11.404				1364.4 216.4	1190.1 922.0	
West, 1943	"	"	52-13-52.516 174-16-23.520				1624.1 446.4	230.4 692.4	
East, 1943	"	"	52-13-52.092 174-16-21.302				1610.1 404.3	214.4 734.5	
Martin, 1943	V 149	"	52-13-39.033 174-17-53.668				1206.5 1018.7	648.0 120.1	
Rad, 1943	V 145	"	52-12-49.839 174-14-00.938				1540.5 17.8	314.0 1221.4	
Silo, 1943	V 151	"	52-12-51.085 174-14-11.824				1579.0 224.5	275.5 914.7	
Croham, 1943	V 148	"	52-14-00.579 174-12-09.647				17.9 183.1	1836.6 955.6	
Atka NE Base 1934	V 142	"	52-14-07.322 174-11-05.154				226.3 97.8	1628.2 1040.9	
Atka SW Base 1934	"	"	52-13-02.013 174-12-11.725				63.1 222.6	1791.4 916.5	
Bob, 1925	"	"	52-12-10.389 174-11-38.341				321.1 728.2	1533.4 411.3	
West Base 1925	V 141	"	52-11-52.259 174-12-11.169				1615.3 212.1	239.2 927.6	
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U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
DESCRIPTIVE REPORT
CONTROL RECORD

MAP T. T-11535 PROJECT NO. PH-34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS
				FORWARD	(BACK)		FORWARD	(BACK)	
Cross (on Atka Church), 1934	V	N. A. 1927	52-11-59.167				1828.8	25.7	
	144		174-11-48.341				918.1	221.5	
Astro, 1925	V	"	52-11-54.381				1680.9	173.6	
	142		174-11-51.250				973.4	166.3	
Inner, 1934	"	"	52-11-47.403				1465.2	389.3	
			174-11-16.670				316.6	823.1	
Mag., 1925	V	"	52-11-54.799				1693.8	160.7	
	143		174-11-51.650				981.0	158.7	
Ster., 1925	V	"	52-11-48.488				1408.7	355.8	
	144		174-11-49.751				945.0	194.7	
Bald Eagle Peak, 1943	V	"	52-09-18.09				559.1	1295.4	
	157		174-15-27.38				520.5	620.2	
Front, 1943	V	"	52-14-22.972				710.0	1144.5	
	140		174-15-46.250				877.6	261.0	
Astro 2 1931	V	"	52-12-19.336				597.7	1256.8	
	141		174-11-09.877				187.6	951.9	
Outer, 1934	V	"	52-12-04.389				135.7	1718.8	
	142		174-10-48.870				928.1	211.5	
Chan, 1934	V	"	52-11-24.277				750.4	1104.1	
	143		174-10-48.942				929.8	210.0	

1 FT. = 3048006 METER

COMPUTED BY: G. Amburn

DATE 23 January 1957

CHECKED BY: E. Ramey

DATE 23 January 1957

C

CONRAD-DC-5784

SCALE FACTOR:

[illegible]

DATE 25 January 1957

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

MAP T. 11536 PROJECT NO. PH 34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS		DATUM CORRECTION	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS	
				FORWARD	(BACK)		FORWARD	(BACK)	FORWARD	(BACK)
PALISADE 1934	V 141	NA 1927	52 13 28.162				870.5	984.0		
			174 09 15.334				291.1	848.7		
BEACH 1934	V 141	"	52 13 28.476				880.2	947.3		
			174 07 09.079				172.3	966.6		
KUDUGNAK 1934	V 76	"	52 13 34.511				1066.7	787.8		
			174 03 54.263				1030.0	108.9		
NAZAN 1934	V 143	"	52 13 29.836				922.2	932.3		
			174 03 54.176				1028.4	110.5		
ISLE 1925	V 141	"	52 12 19.513				603.1	1251.4		
			174 09 02.632				150.0			
BLACK 1934	V 144	"	52 11 36.963				142.2	712.0		
			174 08 10.612				201.6	938.2		
GRASSY 1934	V 141	"	52 11 29.482				911.3	943.2		
			174 09 00.878				16.7	1123.1		
BOL 1934	V 143	"	52-11 46.608				1440.6	413.9		
			174 09 54.528				1035.8	103.9		
MIDDLE 1934	V 143	"	52 11 16.593				512.9	1341.6		
			174 09 59.587				1132.0	7.9		
PROFILE 1934	V 143	"	52 10 44.709				1381.9	472.6		
			174 09 04.590				87.2	1052.9		
UTES 1934	V 141	"	52 10 19.217				594.0	1260.5		
			174 08 04.104				78.0	1062.1		

1 FT. = 3048006 METER

COMPUTED BY: G. Amburn

DATE 23 Jan. 1957

CHECKED BY: E. Ramey

DATE 25 Jan. 1957

COMM-DC-57043

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

MAP T. 11536 PROJECT NO. PH-34 SCALE OF MAP 1:20,000 SCALE FACTOR

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR ψ -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		FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
						FORWARD	(BACK)	
SET 1934	V 144	NA 1927	52 10 18.424 174 08 05.960			569.5	1285.0	
FOG 1934	V 76	"	52 08 55.253 174 05 45.883			1707.8	146.7	
GEO 1943	V 149	"	52 07 48.534 174 04 41.362			1500.1	354.4	
EASY (WW) 1943	V 156	"	52 07 30.400 174 02 55.177			939.6	914.9	
ACE (WW) 1943	V 157	"	52 08 05.28 174 02 49.14			1049.7	91.8	
DIRKS 1934	V 143	"	52 10 53.241 174 09 56.756			163.2	1691.2	
PALISADE 2 1943	V 149	"	52 13 29.999 174 09 19.561			934.6	206.7	
UPPER 1943	V 151	"	52 13 33.12 174 09 13.37			1645.6	208.9	
DOG (WW) 1943	V 156	"	52 07 47.302 174 03 03.741			1078.4	61.6	
BOY (WW) 1943	V 156	"	52 07 58.877 174 03 01.320			927.2	927.3	
NOSE 1943	V 149	"	52 07 51.773 174 02 57.435			371.3	767.6	
						1023.7	830.8	
						253.8	885.1	
						1462.0	392.5	
						71.2	1070.2	
						1819.8	34.7	
						25.1	1116.2	
						1600.2	254.3	
						1092.5	48.8	

1 FT. = 3048006 METER

COMPUTED BY: G. Amburn

DATE 23 Jan. 1957

CHECKED BY: E. Ramey

DATE 25 Jan. 1957

COM-DC-57843

2

SCALE FACTOR:

[illegible]

DATE 25 Jan 1957 15

MAP T. 11536

PROJECT NO. PH-347

SCALE OF MAP
1:20,000

SCALE FACTOR

[illegible]

NET - 3048006 METER

1 FT. = .3048006 METER
H₁
COMPUTED BY: Wisiecki

DATE Nov. 1957

CHECKED BY: J. Battley

DATE _____

Nov. 1957

COMM-DC-57843

COMPILATION REPORT
T-11535 and T-11536

31. Delineation

Shoreline and alongshore areas were delineated by stereoscopic examination of nine-lens photographs taken in 1953 and 1954. Field inspection was not available for any portion of this survey. Prior surveys were used as a general guide in the interpretation of features. Single-lens photographs taken in 1951 were used to aid in shoreline interpretation.

32. Control

Control for this survey was furnished by a radial plot. The report for this plot is filed as part of the Descriptive Report for T-11533. Control is considered adequate.

33. Supplemental Data

T-4875	1:20,000	1934
T-6208	1:5,000	1934
T-6209	1:20,000	1934
T-6950	1:10,000	1934

These surveys were used only to aid in the interpretation of shoreline features.

✓ 34. Contours and Drainage

Sufficient field determined elevations combined with water level datum were available to control the vertical datum for compilation of contours.

* 35. Shoreline and Alongshore Features

Shoreline and alongshore details are office interpreted with the exception of the area of shoreline bordering Nazan Bay from the vicinity of Atka to the long pier west of Palisades Point. Some shoreline inspection was done in Korovin Bay across the island and northwest of Nazan Bay. Field inspection was done on Navy metrogon photography of 7/21/51.

36. Offshore Details

Offshore details are quite numerous on both surveys T-11535 and T-11536. These details include features such as rocks awash, reefs and numerous small islets.

2

39. Junctions

North T-11530, T-11531
East T-9886
South T-11546, T-11547
West T-11534

40. Horizontal and Vertical Accuracy

No deficiencies were indicated.

46. Comparison with Existing Maps

Plane table surveys T-6209 and T-6950 are in general agreement. Some features were in shadows or breakers and could not be seen clearly on the photographs.

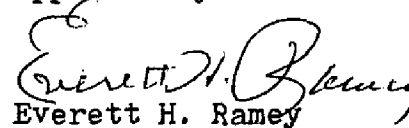
47. Comparison with Nautical Charts

Chart No. 8862	1:300,000, 1st edition, corr. 10/15/51
9010	1:20,000, 1st edition, corr. 9/3/51
9136	1:10,000, 1st edition, corr. 1943.

Items to be Applied to Nautical Charts Immediately: None

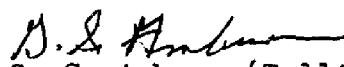
Items to be Carried Forward: None

Approved by:


Everett H. Ramey

Submitted by:


Henri Lucas (T-11535)


G. S. Amburn (T-11536)

T-11535

48. Geographic Name List

- Atka
- Atka Island
- Bolshoi Island
- Cone Island
- Korovin Bay
- Martin Harbor
- Nazan Bay
- Sarana Cove

PREPARED BY

Frank W. Fickett

CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright

CHIEF GEOGRAPHER

T-11536

48. Geographic Name List

- > Amlia Island
- > Amlia Pass
- > Atka Island
- > Bering Sea
- > Cape Kudugnak
- > Cape Utes
- > Eddy Point
- > Flat Point
- > Mid Reef
- > Nazan Bay
- > Palisades Point
- > Profile Point
- > Uyak Island

PREPARED BY

Frank W. Pickert

CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright

CHIEF GEOGRAPHER

REVIEW REPORT
T-11535 and T-11536
Topographic Maps
September 1971

61. General Statement

Graphic compilation of shoreline was completed in 1957 to fulfill hydrographic survey needs. This shoreline compilation was followed by a separate contouring operation done on the Reading nine-lens in 1960. Several small areas not completed on the nine-lens plotter were completed in 1969 on the Wild A-7 Autograph stereoplotter. This procedure was made necessary because the last of the two Reading nine-lens stereoplotters had been dismantled in 1965. Use of the A-7 stereoplotter was made possible by the photographic reduction of the nine-lens photographs to accommodate the 9 x 9 inch format of the A-7.

62 through 65. Comparison with Other Surveys

The two maps 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 manuscript and the prior surveys were resolved at the time comparisons were made.

66. Adequacy of Results and Future Surveys

Shoreline and related features, including contours, are considered to be delineated adequately, although field work was limited almost entirely to photoidentification of horizontal and vertical control.

Reviewed by:



K. N. Maki

Approved by:



Charles Theurer, Chief
Photogrammetric Branch



J. E. Guth, Chief
Coastal Mapping Division