11548 11549

11548 11549

Diag. Cht. No. 8863-2.

Form 504

U. S. DEPARTMENT OF COMMERCE

COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Topographic

Field No. Ph-34 Office No. T-11548 T-11549

LOCALITY

State Alaska

General locality Andreanof Islands

Locality Aziak to Chugul Islands

1953-56

CHIEF OF PARTY
G.A.Nelson, Chief of Field Party
L.W.Swanson, Div. of Photo. Wash.,D.C.

LIBRARY & ARCHIVES

DATE July 26, 1962

USCOMM-DC 5087

DATA RECORD

T- 11548
T- 11549

Project No. (II): PH 34 ~~21050~~ Quadrangle Name (IV):

Field Office (II): Ship Explorer Chief of Party: G. A. Nelson

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

Instructions dated (II) (III): Field: 25 Feb. 1954, 16 Dec. 1954 Copy filed in Division of Photogrammetry (IV)
Office: 2 Nov. 1954
31 Oct. 1954
25 Oct. 1956 Office Files

Method of Compilation (III): Shoreline-graphic; Topography - Reading Plotters

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

Scale Factor (III):

Date received in Washington Office (IV): 6/11/57 Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV): 11 Dec 1957

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

Geographic Datum (III): NA1927 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~~

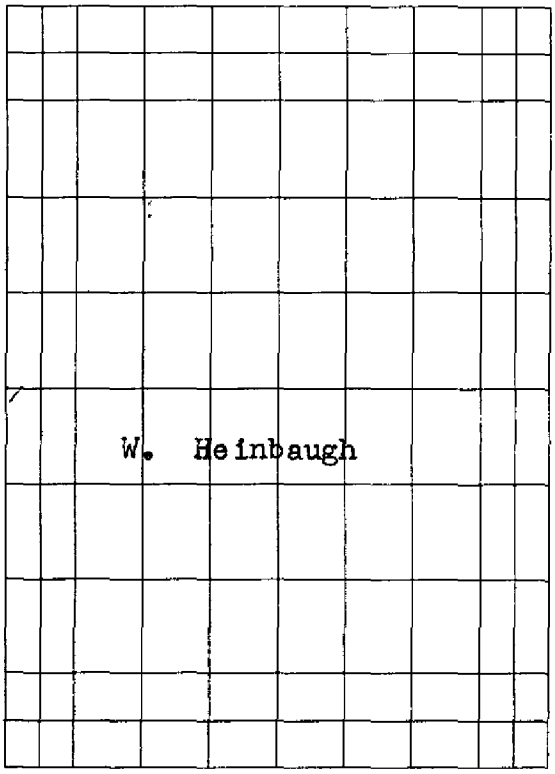
Plane Coordinates (IV): UTM State: Alaska Zone: 1

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)



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

DATA RECORD

Field Inspection by (II): C. W. Clark — Date: 1956 Season

Planetable contouring by (II): — Date:

Completion Surveys by (II): — Date:

Mean High Water Location (III) (State date and method of location): From aerial photos listed on following page and 1956 Field Inspection.

Projection and Grids ruled by (IV): A. Riley — Date: 4-14-55

Projection and Grids checked by (IV): A. Riley — Date: 4-14-55

Control plotted by (III): B. Hale — Date: 11-5-55, 11-23-55

Control checked by (III): G. A. Walker, Jr. — Date: 1-12-56

Radial Plot or Stereoscopic Control extension by (III): S. G. Blankenbaker — Date: 2-10-56

Stereoscopic Instrument compilation (III): Planimetry W. Heinbaugh — Date: 6-17-56; Contours — Date:

Manuscript delineated by (III): T-11548 Shoreline - R. Sugden — Date: 12-13-56
T-11549 " - G. Amburn — 12-17-56
Topography " - W. Heinbaugh — 6-18-57

Photogrammetric Office Review by (III): Shoreline - J. Battley — Date: 12-19-56
Topography- L. Levin — 7-9-57

Elevations on Manuscript checked by (II) (III): L. Levin — Date: 7-8-57

M-2618-12(4)

Camera (kind or source) (III):

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
41917, 18	9/21/53	1:49	1:20,000	2.6 above MLLW
41932	"	2:02	"	2.6 " "
41934-938	"	2:05	"	2.6 " "
41978, 979	"	2:49	"	2.3 " "
41991, 992	"	3:15	"	2.2 " "
42108	9/25/53	1:12	"	3.3 " "
42202	"	3:30	"	3.7 " "
46054	9/6/54	2:41	"	2.7 " "

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
		3.7
1.0		3.7

Reference Station: Sweeper Cove
Subordinate Station: Sand Bay, Great Sitkin
Subordinate Station:

Washington Office Review by (IV): J. J. Streifler Date: Oct. 57

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:

* See field inspection report

M-2618-12(4)

Plotted 11/23/55 Hale

Photogrammetry

MAP T- 11548 PROJECT NO. PH 6034 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)
Bee (USN) 1934	V159	✓	51 59 02.627	1854.5			84.2 ✓	1773.3 ✓	✓	
			176 01 11.918	1145.1			227.5 ✓	917.6 ✓	✓	
ASUKSAK 1934 (USN)	V158	✓	51 56 04.558 ✓	1854.5			140.9 ✓	1713.6 ✓	✓	
			176 06 04.519 ✓	1146.4			86.3 ✓	1060.1 ✓	✓	
TAGADAK 1934 (USN)	V158	✓	51 57 09.402 ✓	1854.5			290.6 ✓	1563.9 ✓	✓	
			176 00 09.148 ✓	1146.0			174.7 ✓	971.3 ✓	✓	
UMAK (USN) 1934 ~~R 43~~	V158		51 54 43.186 ✓	1854.5			1334.7 ✓	519.8 ✓	✓	
			176 01 13.804 ✓	1146.9			263.9 ✓	883.0 ✓	✓	
MAL (USN) 1934	V160		51 53 12.568 ✓	1854.5			388.4 ✓	1466.1 ✓	✓	
			176 06 39.564 ✓	1147.85			756.7 ✓	397.8	✓	
BEE (USN) 1934 Sub PT 1	COMPS.		51 59 [illegible]	1854.5			83.3	1771.2		
			176 01 [illegible]	1145.1			224.4	920.7		

1 FT. = .3048006 METER

COMPUTED BY: B. Hale

DATE 11/23/55

CHECKED BY: CMDe Mann

DATE 23 Nov. 55

M-2388-12

Plotted 12/5/55 Hale

Photogrammetry

MAP T-11549 PROJECT NO. PH 6034 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)
IGITKIN 1934 (USN)	V158		51 59 09.375		1854.5		289.8	1564.7		
			175 57 31.285		1145.0		597.0	548.0		
Cove 1943	V165		51 58 38.457		1854.5		1188.6	665.9		
			175 50 58.426		1145.2		1115.2	30.0		
EGO (USN) 1934 ~~1943~~	V158	?	51 58 22.203		1854.5		686.3	1168.2		
			175 56 32.477		1145.3		620.0	525.3		
PASS 1943	V165	?	51 57 51.323		1854.5		1586.3	268.2		
			175 52 47.400		1145.6		905.0	240.6		
SHELTER 1943	V165		51 58 08.521		1854.5		263.4	1591.1		
			175 52 17.347		1145.4		331.2	814.2		
CHUGUL (1934) (USN) ~~1943~~	V158		51 56 42.724		1854.5		1320.5	534.0		
			175 52 14.996		1146.0		286.4	859.6		
Sub Station EGO (USN) 1934			51 58		1854.5		672.5	1182.0		
			175 56		1145.3		616.5	528.8		
Sub Station A CHUGUL (USN) 1934			51 56		1854.5		1226.3			
			175 52		1146.0		266.5			
Moss Pt., 1956	Field Comp.		51 53 43.863	1355.5	(498.9)					
			175 57 12.942	247.6	(899.8)					
Moss Pt 1956 Sub Sta #1			51 53	1353.1	(501.3)	1854.4				
			175 57	208.5	(938.8)	1147.3				
Moss Pt 1956 Sub Sta #2			51 53	1354.5	(499.9)	1854.4				
			175 57	261.5	(885.8)	1147.3				
RUIN 1956			51 54 44.761	1383.5	(471.0)	1854.4				
			175 59 11.830	225.7	(921.2)	1146.9				

1 FT. = .3048006 METER

COMPUTED BY: Hale DATE 11/23/55 CHECKED BY: CAD DATE 23 Nov. 55

M-2388-12

Photogrammetry

MAP T-11549 PROJECT NO. Ph-34 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)
Igitkin (USN) 1934	V p 158	1927	51-59-09.375 ✓			289.8 ✓ (1564.7)	✓ plotted D.D.C. ok [illegible]
			175-57-31.285 ✓			597.0 ✓ (548.8)	
Ego (USN), 1934	"	"	51-58-22.203 ✓			686.3 ✓ (1168.2)	✓ plotted D.D.C. ok [illegible]
			175-56-32.477 ✓			620.0 ✓ (525.3)	✓

1 FT. = .3048006 METER

COMPUTED BY: C. O. DeMarr DATE April 1, 1955 CHECKED BY: S. G. BLANKENBAKER DATE MAY 3, 1955

M-2388-12

Compilation Report

T-11548 and T-11549

The field inspection report is filed with the descriptive report for T-11328.

The radial plot report is filed with the descriptive report for T-11537.

These manuscripts were first compiled as "incomplete" (Feb. 1956) and were revised after 1956 field inspection.

31. Delineation: The shoreline and forshore features were delineated graphically. The contours, drainage and interior details were delineated on the Reading Nine Lens Plotters directly onto the "advance" shoreline manuscripts. Inasmuch as there was no interior field inspection, all of the cultural detail was delineated by office interpretation. Roads which appeared to be graded and/or paved were shown with a double full line. The remainder were shown with a double dashed line.

32. Control: See the radial plot report for a discussion of horizontal control. Two additional triangulation stations were field identified in 1956 (BEE, 1934- T-11548 and MOSS PT, 1956 - T-11549). These stations were used to check the radial plot. No datum shift was noted. The vertical control was adequate. All vertical control points furnished by the field party "held" in the stereo models. Several vertical control points which were established by the field party, but not computed, were not used because of the plethora of sea level control.

33. Supplemental Data: Boat sheets Ex 2256 A, B & C. These were used for comparison only.

34. Contours and Drainage: There are no areas of questionable accuracy.

35. & 36. Shoreline, Alongshore and Offshore Detail: The photographic coverage (except for shadow areas) of the shoreline was good. Shoreline inspection was adequate.

37. Landmarks and Aids: Asuksak Island Light falls on T-11548 and is recorded on Form 567, copy attached. There are no landmarks or aids on T-11549.

38. Control for Future Surveys: The light mentioned above has also been submitted as a topo station.

39. Junctions: Junction was made with all contemporary surveys as shown on the location diagram.

40. Horizontal and Vertical Accuracy: See paragraphs 32 & 34.

46. Comparison with Existing Maps: T-6939, T-6940, H-8306, H-6918, T-7035, and T-10001.

47. Comparison with Nautical Charts: 9139 - 1:30,000 corrected to 1952.

Items to be Applied to Naut. Charts Immediately - none

Items to be Carried Forward - none

Submitted by:

Wallace Heinbaugh

Wallace Heinbaugh
Cartographer (Photo.)

Approved by:

Louis Levin
Supervisory Cartographer
Nine Len Stereomapping Unit

GEOGRAPHIC NAMES

Survey No.

T - 11548

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Andreanof Islands										1
Asuksak Island										2
Asuksak Pass										3
Aziak Island										4
Box Island										5
Cape Chikik										6
Great Sitkin Island										7
Great Sitkin Pass										8
Kanu Island										9
Little Fox Creek										10
Passage Point										11
Pin Rock										12
Rip Point										13
Tanaklak Island										14
Umak Bight										15
Umak Island										16
Zaliva Point										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

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GEOGRAPHIC NAMES

Survey No.

T - 11549

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Andreanof Islands										1
Asuksak Pass										2
Cape Ruin										3
Chugul Island										4
Chugul Pass										5
Igitkin Bank										6
Igitkin Bight										7
Igitkin Island										8
Igitkin Pass										9
Igitkin Point										10
Moss Point										11
Shelter Cove										12
Tagadak Island										13
Tanager Point										14
Umak Bight										15
Umak Island										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

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Review Report of
Topographic Maps T-11548 and T-11549
September 1957

62. Comparison with Registered Topographic Surveys:

T-6938	USN	1:24422.4	1934
T-6939	USN	1:24422.4	1934
T-6940	USN	1:40,000	1934
T-7035b		1:5000	1946
T-10001		1:20,000	1943

Cultural development of the south portion of Great Sitkin Island in recent years represent the only major differences. In consideration of datum differences there is, generally, good agreement among these surveys. T-11548 and T-11549 are more completely detailed topographic surveys with adequate control and supersede above listed surveys for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies:

Adak, Alaska and Atka, Alaska of Alaska Reconnaissance Topographic Series of 1951 and 1952 by the U. S. Geological Survey at scale of 1:250,000. Scale difference does not permit a conclusive comparison.

64. Comparison with Contemporary Hydrographic Surveys:

H-8306	1:20,000	1956
H-8307	1:20,000	1956

Preliminary shoreline was furnished for these hydrographic surveys from the subject topographic compilations. Limited changes and additions resulting from field inspection and final Washington Office Review need be applied to H-8307. None of these corrections appear to conflict with the hydrographic information shown.

65. Comparison with Nautical Charts:

9139	1:30,000	Corrected to 52 6/2
9193	1:120,000	June 1957

The nautical charts do not include recent changes of the southern end of Great Sitkin Island. There are no other major discrepancies.

66. Adequacy of Results and Future Surveys:

Field inspection of shoreline and foreshore is incomplete, however, apparently adequate. Roads, buildings and other interior features were not field inspected. Such detailing by office interpretation only may be subject to error. Not all field inspection photographs were available during final review. Other than these no deficiencies in accuracy and adequacy were indicated.

Reviewed by:

Josef J. Streifler

Approved:

L C Landy
Chief, Review & Drafting Sec.
Photogrammetry Division

Marvin Vaughan
Chief, Nautical Chart ~~Branch~~ Division
~~Charts Branch~~

J E Waugh 7/23/62
Chief, Photogrammetry Div.

Max B Ricketts
Chief, ~~Coastal Surveys~~ Operations Div.

Summary
To Accompany Topographic Maps
T-11548 and T-11549

T-11548 and T-11549 cover several of the group of Andreanof Islands in the vicinity of Great Sitkin Island of the Aleutian Islands, Alaska.

Shoreline, foreshore and offshore were compiled graphically in 1955 from 1953 and 1954 nine-lens photos and furnished as preliminary manuscripts for hydrographic surveys. In 1957 the subject compilations were completed by the Reading Plotter.

The maps will be published by the Army Map Service as standard topographic quadrangles at the scale of 1:25000 with the addition of hydrographic information.

A "Cronar" film positive at manuscript scale of 1:20000 and the descriptive report as well as a cloth-backed printed copy in colors after final printing by AMS, will be registered and filed in the Bureau Archives.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11548

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-7-60	9139	E. E Thomas	~~Before~~ After Verification and Review Partly applied Portion of shoreline adjacent to H-8507 revised
6-9-61	9140	R. E. Elkins	~~Before~~ After Verification and Review Partly applied thru chart 9139 dwg 8.
7-26-61	9140	R. E. Elkins	~~Before~~ After Verification and Review Partly applied revised shoreline and elevations.
9-10-58	8863	C. R Wittmann	~~Before~~ After Verification and Review Completely appd to Reconstruction
5/63	8862	C Mesfeldt	~~Before~~ After Verification and Review fully applied
1-14-66	9139	[illegible]	~~Before~~ After Verification and Review Partly appd Shoreline detail (To be considered as final application until chart is reconstructed) Part thru cht 9140 part direct
2/18/66	9193	John P. Wein	Before ~~After~~ Verification and Review Part. Applied thru Ch. 9139 dwg #9 and Ch. 9140 dwg #5, consider fully applied until reconst.
			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.

NAUTICAL CHARTS BRANCH

SURVEY NO. T-11549

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
9-7-60	9139	E. E. Thomas	~~Before~~ After Verification and Review Partly applied Portion of shoreline adjacent to H-8307 revised.
6-9-61	9140	R. E. Elkins	~~Before~~ After Verification and Review Partly applied thru chart 9139 chg 8.
7-26-61	9140	R. E. Elkins	~~Before~~ After Verification and Review Partly applied revised shoreline and elevations.
9-10-58	8863	R Wittmann	~~Before~~ After Verification and Review completely appd to Reconstruction
1-14-66	9139	[illegible]	~~Before~~ After Verification and Review Partly appd Shoreline detail Part thru chart 9140 part direct (To be considered as final application until chart is reconstructed)
			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-2158-1

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.