# 7063a

# Charles Control

Diag'd. on diag. ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Graphic Control TOPOGRAPHIC

Field No. DE-A-146-a Office No. T-7063 a

LOCALITY

State Alaska - Aleutian Islands

General locality Kagalaska Island

Locality Black Point to Oglala Point

194 6...

CHIEF OF PARTY

I.E.Rittenburg

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DATE JAN 2 1948

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

# TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

### Field No. DE-A-46 (a)

REGISTER NO.

State	Alaska
General Locality	Aleutian Islands, Kagalaska I.
Locality	North shore
Scale 1:10,000 Dat	e of survey, 1946
Vessel	DERICKSON
Chief of party	I. E. Rittenburg
Surveyed by	Francès B, Quinn
Inked by	Francis B. Quinn
Heights in feet above	to ground to tops of trees
Contour, Approximate co	ntour, Form line interval feet
Instructions dated 16	April 1943 & 1 Feb. 1944 , 19
Remarks:	
	***************************************
	Ann 922023

#### DESCRIPTIVE REPORT

#### To Accompany

Topographic Sheet T\_\_\_\_ (Field No. DE-A-46-a)

Scale 1:10,000

Black Point to Oglala Point, Kagalaska I., Alaska

I. E. Rittenburg, Chief of Party

USC&GSS DERICKSON

1946

AUTHORITY: (A) Director's revised Instructions for Project CS-218 dated 16 April 1943 and 1 February 1944.

(B) Instructions from F.B.T. Siems, C&GS/17ND, for Project 23 (Supplement I) - ADDITIONAL HYDROGRAPHY, KULUK BAY AREA, dated 17 March 1946.

GENERAL STATEMENT: THIS SHEET (AND HYDROGRAPHIC BOAT SHEET DE-1246)
SHOULD BE USED ONLY FOR REFERENCE PURPOSES TO
SHOW THE RELATIVE LOCATIONS OF HYDROGRAPHIC SIGNALS USED ON SHEET
DE-3146. All cuts on this sheet are hydrographic cuts, with the
exception of one set of theodolite directions at triangulation
station ZETO plotted by tangent-offsets from the line ZETO-HOGAN.

١

The sheet was designed to furnish control for hydrographic sheets DE-1246 and DE-3146, but sea and weather conditions prevented landing on this coastline for planetable work. The same conditions prevented field work on sheet DE-1246.

All of the cuts, including those from ZETO, can be more effectively plotted directly on Sheet DE-3146 and combined thereon with other cuts that were controlled by sextant fixes well outside the limits of this sheet.

CHARACTER OF CONTROL USED: The positions of triangulation stations LALA and HOGAN are from the second-order quadrilateral LALA-HOGAN-ZETO-GREAT SITKIN which was observed in 1946. Station RF-1 is from the ship PATTON's triangulation in 1945, and DYE is from the U. S. Navy triangulation of 1934 adjusted to the Unalaska datum.

Station NAG, used on Sheet DE-3146, is also "R.M. 1" of station HOGAN 1946.

NOTES FOR THE PROCESSING OFFICE: Lists of Directions for triangulation stations ZETO and HOGAN are attached to this report. They may be used for plotting signal NAG and cuts to whitewash signals.

Sextant cuts to signals on this sheet appear in Volumes 1, 3, 4, and 7 of hydrographic sheet DE-3146. The cuts on B-day, Volume 1, should be plotted before those on A-day and given preference. There was some uncertainty in the identification of signals on A-day, and some of the cuts and fixes may have to be rejected. Final decision on these rejections is deferred to the smoothsheet plotting because of distortion on the boat sheet. The cuts on B\*-day need not be plotted on sheet DE-3146 since those signals were not used. They have been plotted on the topographic sheet and transferred to boat sheet DE-1246.

This topographic sheet and hydrographic sheet DE-1246 should be returned to the field when work is resumed in the area, but it is probable that most of the whitewashes from Black Point to Oglala Point will be washed away by storms in the winter of 1946-47.

FRANCIS B. QUINN,

Lt. Comdr., USC&GS

Approved and Forwarded,

I. E. Rittenburg,

Lt. Comdr., USC&GS,

Chief of Party.

#### DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 24A Rev. Oct., 1932

\* These columns are for office use and should be left blank in the field.

#### COPT LIST OF DIRECTIONS

Clution TRACE (2017)		Cimia 19 -	 L. 7							
Station HOGAN (1946)		ka - Kagala								
Chief of party 1.E.Rittenh	-	1y 1946		Computed by FBQ						
Observer F.B.Quinn		Instrument .	H-398 (Pa	rkhurst)	Checked byII	ER				
OBSERVED STATION	Obs	served direction	Eccentric reduc-	Sea level reduction*	Corrected direction with zero initial	Adjusted direction*				
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ZETO_(USN)_1933	0	00 00.00	2		0 00 00.00	<u> </u>				
GREAT SITKIN (USN) 1933	_ 111	24 10.5			<u>.</u>					
IAIA 1946	156	51 00.9		·- <del></del>	• • <del>-</del> • -					
R.M. 1 (also NAG)	208	.59.51	· · · · · · · · · · · · · · · · · · ·							
*d= 5.206m., 17.08ft.				· ,	) <del></del>	· · ·				
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_R.M. 2	306.	13_59								
d= 2.115m., 6.94ft.										
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*Slope di	stance	e reduced	to this hor	rizontal	distance, Vol. 6	Page 28.				
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Station: Ken

State: Maryland

Chief of party: C. V. H.

Date: 1917

Computed by: O. P. S.

Observer: C. V. H.

Instrument: No. 168

Checked by: W. F. R.

OBSERVED STATION	Observed direction			Eccentric reduction		Sea level reduction	Corrected direction with zero initial			Adjusted direction	
Chevy	0 29 176 313 326 352 357 358	00 03 42 24 31 17 28 31	53.0 30.21 20.8 48.63 20	- -1 +3 + -	7.31 09.8 01.2 31.93 5.7 1.16	, ,	0 29 313 326 352 357	, 00 02 28 32 17 28	00.00 34.5 01.5 09.45 33.8 54.78		"
To Home Ken	eccen Roza Ko	tric en	:	-			. 2		. ,.		 =

This form, with the first three and fifth columns properly filled out and checked, must be furnished by field parties. To be acceptable it must contain every direction observed at the station.

It should be used for observations with both repeating and direction theodolites.

The directions at only one station should be placed on a page.

If a repeating theodolite is used, do not abstract the angles in tertiary triangulation. The local adjustment corrections (to close horizon only) are to be written in the Horizontal Angle Record, and the List of Directions is to be made from that record directly.

Choose as an initial for Form 24A some station involved in the local adjustment, and preferably one which has been used as an initial for a round of directions on objects not in the main scheme. Use but one initial at a station. Call the direction of the initial 0° 00′ 00.″ 00, and by applying the corrected angles to this, fill in opposite each station its direction reckoned clockwise around the whole circumference regardless of the direction of graduation of the instrument. The clockwise reckoning is necessary for uniformity and to make the directions comparable with azimuths.

If a station has been occupied eccentrically, reduce to the center and enter in this form, in ink, the resulting corrections to the observed directions in the column provided for them. If an eccentric reduction is necessary, but not made in the field, leave the column blank. If the station was occupied centrally, and no eccentric reduction is required, put dashes in the column to show that no corrections are necessary.

Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

It is recommended that the following simple plan of observing be used with a repeating instrument: Measure each single angle in the scheme at each station and the outside angle necessary to close the horizon. Measure no sum angles. Follow each measurement of every angle immediately by a measurement of its explement. Six repetitions are to constitute a measurement. The local adjustment will consist simply of the distribution of the error of closure of the horizon.

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY FORM 24A Rev. Oct., 1932

\*These columns are for office use and should be left blank in the field.

#### COPY LIST OF DIRECTIONS

Station_ZETO_(USN)_1933	State Alaska, Adak I.	
Chief of party I.E.Rittenburg	Date 1 June 1946	Computed byFBQ
Observer F. B. Oninn	Instrument H-398 (Parkhurst)	Checked by

OBSERVED STATION	Observed direction	Eccentric reduc- tion	Sea level reduction*	Corrected direction with zero initial	Adjusted direction*
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Station: Ken

State: Maryland

Chief of party: C. V. H.

Date: 1917

Computed by: O. P. S.

Observer: C. V. H.

Instrument: No. 168

Checked by: W. F. R.

OBSERVED STATION	Observed direction			Eccentric reduction		Sea level reduction	Corrected direction with zero initial			Adjusted direction	
Chevy Tank west of \( \Delta \) Dulce Ken (center), 3.469 meters Forest Glen standpipe Home Bureau of Standards, wireless pole Reno Reference mark, 16.32 m  Ken To Home	0 29 176 313 326 352 357 358	7 00 03 42 24 31 17 28 31	00.00 37.0 53.0 30.21 20.8 48.63 20	,  -1 +3 + 	7.31 09.8 01.2 31.93 5.7 1.16		0 29 313 326 352 357	, 00 02 28 32 17 28	00.00 34.5 01.5 09.45 33.8 54.78	,	n
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Directions in the main scheme should be entered to hundredths of seconds in first-order triangulation; otherwise to tenths only. Points observed upon but once, direct and reverse, should be carried to tenths in first-order and second-order triangulation, and to even seconds only in third-order triangulation. In general, but two uncertain figures should be given.

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# 7063b

Diag'd on diag. ch. No. 8863-2

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. DE-A-46 (b) Office No. T-7063 b

LOCALITY

State Alaska - Aleutian Islands

Locality Finger Bay (S. W. Arm)

194 6...

CHIEF OF PARTY

I.E.RITTENBURG

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### TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

#### Field No. DEA-16 (b)

REGISTER NO.

State Alaska - Aleutian Islands
General locality Adak Island
Locality Finger Bay (S. W. Arm)
Scale 1:5000 Date of survey August-September 19 46
Vessel Ship DIRICKSON
Chief of party I. N. Rittenburg
Surveyed by P. B. Quian
Inked by B. Quinn
Heights in feet above to ground to tops of trees
Contour, Approximate contour, Form line intervalfeet
Instructions dated Special Instructions by Capt. Siems, 19
Remarks:

See Bp. 42183 advance print recid in Wash. 3/47

#### DESCRIPTIVE REPORT

#### To Accompany

Topographic Survey T\_\_\_\_ (Field No. DE-A-46-b)

Scale 1:5000

Finger Bay. (S. W. Arm), Adak I., Alaska

I. E. Rittenburg, Chief of Party

USCAGSS DERICKSON

August-September 1946

AUTHORITY: (A) Director's revised Instructions for Project CS-218, dated 16 April 1943 and 1 February 1944.

(B) Further instructions by Capt. F.B.T.Siems, C&GS/17ND, for a resurvey of Finger Bay to show revisions made in the shoreline and harbor facilities by the Navy since the original survey in 1943 on topographic sheet T-6936.

CAUTION: It is probable that the Navy Department will want the three Dry Docks, the names of buildings, and the descriptions of buoys omitted from Charts. They are included as a matter of record.

is a resurvey of a small area. The changes in the shoreline and docking facilities along the northwest side of the bay have been rodded in for correction of charts, and the shoreline of the entire inner part of the bay has been rerun for the purpose of comparison with the survey made in 1943. Some of the buildings along the docking area have been rodded in, and all of the buildings in the area were checked and revised on a Navy plan, 1 inch equals 100 feet, which was received from and returned to the Navy Public Works officer.

LANDMARKS: No list of landmarks is submitted. Revised Coast Pilot information appears in the Confidential Navy sailing directions submitted to Washington by Captain Siems.

AIDS TO NAVIGATION: The azimuth of the entrance range, as published in the Pacific Light List for 1946, was verified by triangulation this season.

CHARACTER OF CONTROL USED: Second-order Triangulation was extended into Finger Bay from the vicinity of Sweeper Cove. The quadrilateral LUK (USE) 1944 - LEE (USN) 1933 - GOON (USE) 1944 - LAG (USE) 1944 was completely reobserved, holding the line LUK - LEE fixed. The new values obtained at GOON and LAG were used to extend the scheme into Finger Bay through the quadrilaterals UPFER = CREEK - LAG - GOON and STAFF - BLUFF - UPPER - CREEK. FRONT RANGE LT., REAR RANGE LT., and CONTROL TOWER were located as

intersection stations with second-order accuracy. FRONT RANGE LT. was occupied to furnish the Navy with true asimuth of Pier 2.

At a later date, U. S. Navy traverse stations WI-1 (1943) and FB-4 (1943) were tied into this scheme to enable the Public Works department of the Navy to adjust their previous traverses to the network on the Unalaska datum.

DESCRIPTION OF SURVEY METHODS USED: Standard methods were used throughout, including setups at triangulation stations, planetable three-point fixes, resections, and short traverses. Checked sextant fixes were used to locate the ten mooring buoys, and stadia was used on the small, red, spherical marker buoy near Pier 1. All reefs that uncover at MLIW and the low water line that differs appreciably from the high water line were rodded in at MLIW.

AIR PHOTO INSPECTION:

No field inspection was made of air photographs.

Finger Bay appears in the following sets of photographs taken by the Army Air Force, 11AAF, in 1943, prior to the changes shown on this topographic sheet:

- (A) Small-sized, single lens prints, scale 1:26,000 (approx.)
  - (1) S12-R5 (1-29), flown 7/25/43 from Cape Adagdak to the south coast of Adak I., across Sweeper Cove and Finger Bay.
  - (2) S12-R6 (1-24), flown 7/25/43 from Cape Adagdak to the south coast of Adak I., across Kuluk Bay and Finger Bay.
- (B) Large-sized, vertical prints, scale 1:26,000 (approx.)
  - (1) Strip V2(1-9), flown 6/28/43 from Bay of Islands across Sweeper Cove and Finger Bay.
  - (2) Strip 8 (V1-V18), flown 7/27/43 from the south coast of Adak Island to Cape Adagdak, across Finger Bay.

FORMLINE VERIFICATION: No elevations were taken by topographic methods.

Elevations of triangulation stations by theodolite non-reciprocal observations from stations CREEK and UPPER have
been submitted with the triangulation data.

CHANGES IN FEATURES AND SHORELINE: Extensive changes in the shoreline and docking facilities along the northwest side of the bay have been made by the Navy since the original survey and the air photographs in 1943.

COMPARISON WITH PREVIOUS SURVEYS: Good agreement was found in comparison with Sheet T-6936, surveyed on the same scale in 1943, with the exception of a displacement of datum amounting to approximately 15 meters. The former sheet was surveyed on the U. S. Navy datum, and the Unalaska datum was superimposed from the best available data at that time. Topographic signal FAT 1943 and part of the shoreline have been transferred to this sheet from a photostat of Sheet

T-6936 to illustrate the difference in datum.

COMPARISON WITH CHARTS: The area covered by this survey appears on Charts Nos. 9119, 9141, and 9193. Corrections should be made on all three charts, especially Chart 9141 which is on a scale of 1:10,000.

NEW NAMES: No new names are recommended.

PHOTOGRAPHS: No photographs were taken to supplement this survey or to illustrate equipment used.

STATISTICS:

Statute Miles of Shoreline ----- 2.2

Francis B. Quinn,

Lt.Comdr. USC&GS

Approved and Forwarded.

I. E. Rittenburg, Lt. Condr., USC&GS,

Chief of Party.

## NAUTICAL CHARTS BRANCH

# SURVEY NO. 7 7036 b

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/10/48	9119	A.G. Mc Jam	Before After Verification and Review
			Partially applied.
83/51	9/93	Linkbau	Before After Verification and Review 14-7605.
		1112	Previly applied - no further corrins
6/6/60	9141	MEins St	Before Verification and Review necessary now
Scherally	superseda	d by T. 11326	Consider fully applied UNTIL chart is reconstructed
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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.