# 9941

Diag. Cht., No. 8863-2.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

#### DESCRIPTIVE **REPORT**

Type of Survey Topographic

T-9940

Field No. Ph-31 (18) Office No. T-9911

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Kanaga Island

194/52-54

CHIEF OF PARTY

S.B. Grenell, Chief of Field Party L.W.Swanson, Div. Of Photo.Office

LIBRARY & ARCHIVES

DATE July 18, 1957

#### DATA RECORD

# T = 9940 and T = 9941

(T-9940) Kanaga Bay Project No. (II): C.S. 218 Quadrangle Name (IV): (T-9941) Cape Chlanak Ph-34(48) Field Office (II): Ship Explorer Chief of Party: S. B. Grenell Photogrammetric Office (III): Washington, D. C. L. W. Swanson Instructions dated (II) (III): Copy filed in Division of Supplemental Instructions - 19 March 1952 Photogrammetry (IV) - 20 Feb. 1953 Ð 11 - 23 Dec. 1953 Office Files Compilation Instructions - 21 Sept. 1954 Director's Letter No. 22/MEK, S-1-EX. 4 May 1954 Reading plotter, Model "B" Method of Compilation (III): Manuscript Scale (III): 1:20,000 Stereoscopic Plotting Instrument Scale (III): 1:20,000 1.0 Scale Factor (III): Date reported to Nautical Chart Branch (IV): 6-27- 55 Date received in Washington Office (IV): Date registered (IV): AUG 23 1955 Applied to Chart No. Publication Scale (IV): Publication date (IV): N.A. 1927 Geographic Datum (III): 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): Adjusted Lat.: Long.: Inadies 194 Plane Coordinates (IV): State: Zone:

Universal Transverse Mecator Grid with 1000 meter interval indicated

with marginal ticks.

Alaska, Zone 1

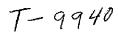
Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Offica.

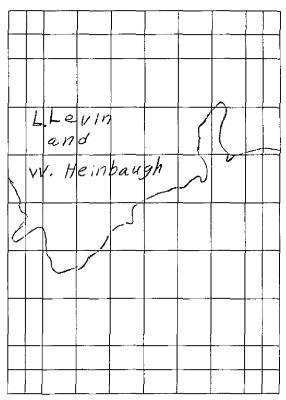
When entering names of personnel on this record give the surname and initials, not initials only.

Form T- Page 1

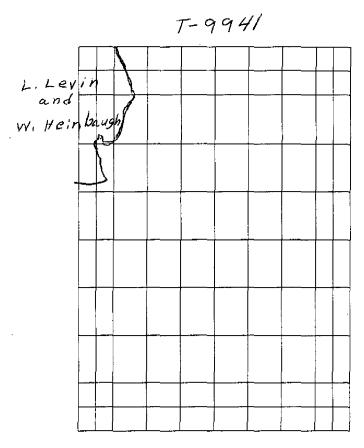
X= .

M-2618-12(4)





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



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

# DATA RECORD

Shoreline inspection by C. W. Clark

Field Inspection by (II):

1954 and H. A. Garcia Date: Planetable contouring by (II): Date: Completion Surveys by (II): Mean High Water Location (III) (State date and method of location): Projection and Grids ruled by (IV): Austin Riley (T-9940) (T-9941) Date: 18 Oct. 1954 15 April 1954 Projection and Grids checked by (IV): H. D. Wolfe (T-9940) Date: 18 Dec. 1954 Austin Riley (T-9941) 18 Dec. 1954 Control plotted by (III): C. O. DeMarr and G. Amburn Date: October 1954 C. O. DeMarr and R. J. French Date: October 1954 Control checked by (III): Radial Plot-or-Storeoscopic- S. Blankenbaker Date: November 1954 Control extension by (III): R. J. French Planimetry L. Levin Date: November 1954 W. Heinbaugh Stereoscopic Instrument compilation (III): Contours L. Levin Date: January 1955 W. Heinbaugh Date: November 1954 Manuscript defineated by (III): Shoreline - R. Sugden Topography - R. Sugden March 1955 Photogrammetric Office Review by (III): Orvis N. Dalbey Date: 24 May 1955 Date: Elevations on Manuscript checked by (II) (III): Orvis N. Dalbey 24 May 1955

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M-2618-12(4)

1953

Date:

Camera (kind or source) (III):

Remarks:

U.S.C.&G.S. Nine-lens camera, Model "B" f = 8.25 inches

PHOTOGRAPHS (III)

Tide (III)

Number	Date	Time	Scale	Stage of Tide
37693 thru 37694	1 July 1952	17:31	1:20,000	-1.1 MHW
37697 thru 37699	1 July 1952	17:38	1:20,000	-1.1 MHW
38997 thru 38998	9 Sept. 1952	9:16	1:20,000	-2.0 MHW
39000 thru 39001	9 Sept. 1952	9:27	1:20,000	-2.0 MHW

Ratio of Mean KMPBO Ranges Range Reference Station: Sweeper Cove, Adak Subordinate Station: Hot Springs, Tanaga (West Coast) Subordinate Station: Kanaga Bay, Kanaga (East Coast) Date: Washington Office Review by (IV): Date: Final Drafting by (IV): Date: Drafting verified for reproduction by (IV): Date: Proof Edit by (IV): 25 sq. mi. Land Area (Sq. Statute Miles) (III): T-9941 (22 miles (T-994 Shoreline (More than 200 meters to opposite shore) (III): Shoreline (Less than 200 meters to opposite shore) (III): Control Leveling - Miles (II): None 2 (1) Identified: (7) Number of Triangulation Stations searched for (II): (T-9940 Nidentified: (T-9941 1 Number of BMs searched for (II): Number of Recoverable Photo Stations established (III): 9940 **-** 21 1954, 6 1953 Number of Temporary Photo Hydro Stations established (NI):

\*None

Diurnal

# Summary to Accompany T-9940 and T-9941

T-9940 and T-9941 are two topographic surveys which cover the southeastern end of Kanaga Island. These maps were compiled on the 9-Lens Reading Plotter. Field operations preceding compilation included field inspection of shoreline and offshore rocks, recovery and establishment of horizontal control, and the determination of elevations required to control a stereo-instrument project vertically. Compilation was at the scale 1:20,000. Contours were drawn at a 50-foot interval, with a 25-foot interval supplementary contours. The maps received no field edit.

A cloth-backed lithographic print of each map at manuscript scale and the combined descriptive report will be registered and permanently filed in the Bureau Archives.

(Joins No. 16) Amchicka 53,930 DELAROF ISLANDS PH-34 (48) В H Ŗ 1555 5/04/45 G O IJ C. Yakak 0 Ś Ö H (ŦJ Ά Z (Joins No. 14)

TOPOGRAPHIC MAPPING PROJECT PH-34

Aleutian Islands ALASKA Part B

FIELD INSPECTION REPORT included in Descriptive Report for T-9925 and T-9926.

PHOTOGRAMMETRIC PLOT REPORT included in Descriptive Report for T-9925 and T-9926.

NO							
	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)	. ветим. вовестви Vol.1	DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
Mast 1943	Vol.V	NA	51-43-06.757			208,8 (1645,6)	
	D.183	1927	177-11-43.119			827.8 (324.1)	:
Front, 1943	"p.183	=	51-42-21,144			653.5 (1200.9)	
			177-11-53.890			1034.8 (117.3)	
Rear, 1943 "	" p.179	<u>=</u>	51-42-28.870			892.3 (962.1)	
	1		177-12-03.690			70.9 (1081.2)	
Knob, 1943	0.183	<del></del>	51-44-45.971			1420.8 (433.6)	
(P-020)	1		177-15-58.346			1119.4 (31.7)	
C11ff. 1943 "	±	=	51-42-29,464			610.6 (9.3.8)	
(P-021)			177-14-20,880			(751.2)	
		1					
Perch 1954		=	51-43-47.787		ı	1476.9 (377.5)	
			177-12-20,275			389.2 (762.4₺	
Cor.	Topo		51-43-05,505		!	170.1 (1684.2)	
1954			177-11-53.447	-		1026.1 (125.8)	
						-	
	·						

	SOURCE OF INFORMATION	DATUM	LATITUDE OR y-COORDINATE  LONGITUDE OR x-COORDINATE	DISTANCE FROM GRID IN FEET.  OR PROJECTION LINE IN METERS	DATUM	DISTA FROM GRID OR P	N.A. 1927 - DAIUM DISTANCE DM GRID OR PROJECTION LINE IN METERS	FROM GRID OF PROJECTION LINE FROM GRID OR PROJECTION LINE FROM GRID OR PROJECTION LINE IN METERS
	THE STATE			FORWARD (BACK)		FORWARD	(BACK)	FORWARD (BACK)
Ran 1943	Vol.	NA	51-44-11.076			342.3	(1512.1)	
	p.178	1927	177-08-24.384			6.794	(683.5)	
Ran 1943		=	51-44-			310,2	(1544.2)	-7
sub.sta.			177-08			489.0	(662.4)	
Dam 2, 1943	178	=	51-42-25,053			774.3	(10801)	:
			177-08-29-492			566.3	(585.8)	
•								
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					-			

# COMPILATION REPORT T-9940 and T-9941

#### 31. DELINEATION:

See Compilation Report T-9925 and T-9926 for special methods used in the preparation of the compilation manuscript (re: grids and controls).

Shoreline, contours and interior planimetry were delineated using Reading Plotter (Model B) and rectified, metal-mounted nine-lens photographs with the exception of the shoreline of Kanaga Bay (appearing on T-9940). This shoreline was plotted by J. D. Perrow, Jr., using Kelsh Plotter (Model A) and single-lens photography. The resultant manuscript of the shoreline had a scale of 1:5000 from which a reduction print (1:20,000) was made to be used as the final shoreline delineation. See separate Compilation Report T-11555 for detailed report on this inset.

# 32. CONTROL:

Horizontal control and vertical control were adequate. Refer to Paragraph 23, "Radial Plot Report."

# 33. SUPPLEMENTAL DATA:

See 31 for details of inset T-11555.

# 34. CONTOURS AND DRAINAGE:

The quality of the photographs was fair and consequently no unusual difficulty was encountered in delineating the contours and drainage.

#### 35. SHORELINE AND ALONGSHORE DETAILS:

Shoreline inspection was adequate. Some loss of detail along the shoreline was encountered as a result of surf, bluff overhang and shadows but, by constant reference to field inspection photographs during delimention, it is believed that accuracy is adequate.

#### 36. OFFSHORE DETAILS:

Some loss of detail in the many offshore features was encountered as a result of surf, bluff overhang and shadows but, by constant reference to field inspection photographs during delineation, it is believed that accuracy is adequate.

# 37. LANDMARKS AND AIDS:

Not applicable.

# 38. CONTROL FOR FUTURE SURVEYS:

One Form 524 card is being submitted with this report.

Topographic station, STAG, 1954, identified on photograph 37697, was established in Survey T-9941.

List of recoverable topographic stations and photo-hydro stations, with descriptions of the latter, has been prepared and included in Paragraph 49.

# 39. JUNCTIONS:

Junction with T-9940 was made on the west by T-9939, on the north by T-9933 and on the east by T-9941.

Junction with T-9941 was made on the west by T-9940 and on the north by T-9934. No contemporary surveys exist on the east as of this date. (T-11329 is proposed.)

### 40. HORIZONTAL AND VERTICAL ACCURACY:

Not applicable.

# 46. COMPARISON WITH EXISTING MAPS:

These manuscripts were compared with the following existing maps:

ADAK (U.S.G.S.) N5115-W17 600/60X120 1:250,000 (1951)
KANAGA ISLAND (War Dept., Corps of Engineers)
N51405-W17714/7.5X10 1:25,000 (1943)
KANAGA ISLAND (War Dept., Corps of Engineers)
N5141.5-W17704/7.5X10 1:25,000 (1943)
PRELIMINARY SHORELINE MANUSCRIPT (U.S.C.&G.S.)
RS-489 1:20,000 (1953)

#### 47. COMPARISON WITH NAUTICAL CHARTS:

The manuscripts were compared with the following charts:

U.S.C.&G.S. No. 9121 1:7500 (1947) Revised 25 Aug. 1952 U.S.C.&G.S. No. 9193 1:120,000 (1953) Revised 5 July 1954

No appreciable divergences were noted.

Items to be applied to nautical charts immediately-none.

# 48. GEOGRAPHIC NAME LIST:

Appended.

# 49. NOTES FOR THE HYDROGRAPHER:

Appended.

Respectfully submitted:

Wallace Heinbaugh Cartographer

Approved:

Orvis N. Dalbey

Supervisory Cartographer

	GEOGRAPHIC NAMES	5		/ /	red la	Tubbe /			Was	Atlas	/- ^ /
	Survey No. <b>T-994</b> 0 <b>T-994</b> 1	O amd L	\si_*	A Portor of State of	J. Made	or identification	Or local Mag	S. Cuide	A Sud Wells	J.S. Jight	\$ /
	,,,,		2L 40. C	2, 40.\ 0	2. W.	or retroited	or or		Rord	\s <sup>.</sup> /	
	Name on Survey	A	<u>  B</u>	/ c	/ D	E	<u> </u>	G_	/ H	/ K	
	T-9940							_	1		1
	Aleutian Islands	_				ļ	ļ	_			2
	Angora Point							_			3
	Cape Tusik		-	ļ				_			4
	Indian Point							ļ	<u> </u>		5
	Kanaga Bay					1		_			6
	Kanaga Island		ļ				ļ				7
	Kayak Cove		<u> </u>					<u> </u>			8
	Memorial Point		ļ								9
	Pacific Ocean		-		<u> </u>	,					10
	Point Deceit		<u> </u>								11
	Range Point		<u> </u>					_			12
	Swallow Point										13
	Totem Rock		ļ <u>-</u>						<u> </u>		14
	Wreck Reef	-						-			15
			-								16
	<u>T-9941</u>	_	-		ļ				1		17
-	Adak Strait		<u> </u>		<u></u>						18_
	Aleutian Islands									ļ	19
	Cape Chlanak										20
	False Bay	•			 						21
	Kanaga Island					Na	<u>}</u>	ت ک	2 pp	OVE	22
	Pacific Ocean		-					8-	2-j.	55	23
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			-				-				27 M 234

# NOTES TO THE HYDROGRAPHER

One topographic station, STAG 1954 identified on photograph 37697, was established in Survey T-9941.

The following photo-hydro stations were located:

<u>Description</u>	Identified on Photo No. 2861
WW	37698
	2861
WW	<b>37698</b>
WW on SW face of higher part of rock	2861
Sign board on top of island	2862
WW on outer face of 15-ft. pinnacle	2860
Water tenk	37694
White tripod	2859
White tripod	2860
White tripod	2860
West gable cabin	<i>3</i> 7693
WW on point of cliff	2860
WW on low rock at point of grass	2861
•	37694
WW on large and northerly of several	2861
boulders	37693
WW on SE point of bluff	2862
WW on SE corner of pilot house of	
wreck. WW not visible on photo	2861
WW	2862
WW	2862
	38997
	38997
·	38997
	38997
	WW  WW  WW  WW  WW  WW  Wo on SW face of higher part of rock  Sign board on top of island  WW on outer face of 15-ft. pinnacle  Water tank  White tripod  White tripod  White tripod  West gable cabin  WW on point of cliff  WW on low rock at point of grass  WW on large and northerly of several  boulders  WW on SE point of bluff  WW on SE corner of pilot house of  wreck. WW not visible on photo  WW

Photo-hydro stations NOB, OLE, PUN, RIB, SOY, TAT, URN, VIC, WAY, and YAW on T-9940 are 1953 signals and not used in 1954.

# PHOTOGRAMMETRIC OFFICE REVIEW

T. 9940

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoals, etc15. Bridges16. Aids
to navigation 17. Landmarks 18. Other alongshore physical features 19. Other along -
shore cultural features
DUVEICAL FEATURE
PHYSICAL FEATURES  20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
features
· CULTURAL FEATURES
27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names34. Junctions35. Legibility of the manuscript36. Discrepancy
overlay 37. Descriptive Report 38. Field inspection photographs 39. Forms
40. Caria M. Dalloy  Reviewer Supervisor, Review Section or Unit
Reviewer 2 Supervisor, Review Section or Offic
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The
manuscript is now complete except as noted under item 43.
Compiler Supervisor
43, Remarks; M-2623-12

# Review Report - T-9940 and T-9941 Topographic Maps 19 August 1955

# 62. Comparison with Registered Surveys:

There are no prior surveys in the area of T-9940 and T-9941.

# 63. Comparison with Maps of Other Agencies:

USE, Kanaga Island (Sheets 4 and 5) 1:25,000, 1943 (Local Datum)

Because this area is not subject to rapid change, the maps are in good general agreement. The greater detail of foreshore and shoreline on T-9940 and T-9941 fits them to supersede the quadrangles for charting purposes.

# 64. Comparison with Contemporary Hydrographic Surveys:

H-8144 (EX 2454) 1:20,000 1954

Blueprints 51868 and 51870 of boat sheets EX 2454a and c were available during review of T-9940 and T-9941. The shoreline for the boat sheets is from RS 490, a preliminary compilation. The final photogrammetric compilations give a greater refinement in shoreline and delineates more rocks and islets, but this causes no conflict with the boat sheet soundings.

# 65. Comparison with Nautical Charts:

Levat. Stivens

9193 1:120,000 July 1953 Alaska Pass to Adak Strait

The small scale of the chart affords only evidence that there is general agreement.

#### 66. Accuracy:

The maps comply with project instructions, are complete and adequate for charting, and meet the National Standards of Accuracy.

Reviewed by:

Lena T. Stevens

APPROVED:

Chief, Review Section Photogrammetry Division

Chief, Photogrammetry Division

18 57

Chief, Nautical Chart Branch Charts Division

Chief, Coastal Surveys Division