

9940

9941

9941

9940

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-34 (118) Office No. T-9941

LOCALITY

State AlaskaGeneral locality Aleutian IslandsLocality Kanaga Island19452-54

CHIEF OF PARTY

S.B. Grenell, Chief of Field Party

L.W. Swanson, Div. Of Photo. Office

Washington, D.C.

LIBRARY & ARCHIVES

DATE July 18, 1957

8-1870-1 (1)

T - 9940 and T-9941

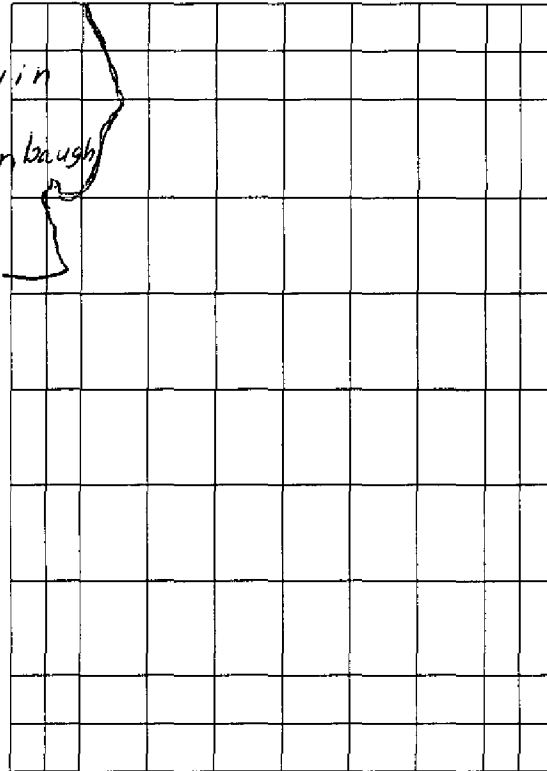
Quadrangle Name (IV): (T-9940) Kanaga Bay

T-9940

L. Levin
and
vv. Heinbaugh

T-9941

L. Levin
and
W. Heinbaugh



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

DATA RECORD

Field Inspection by (II): **Shoreline inspection by C. W. Clark
and H. A. Garcia**

Date: **1953
1954**

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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)
Austin Riley (T-9941)**

Date: **18 Dec. 1954
18 Dec. 1954**

Control plotted by (III): **C. O. DeMarr and G. Amburn**

Date: **October 1954**

Control checked by (III): **C. O. DeMarr and R. J. French**

Date: **October 1954**

~~Radial Plot or Stereoscopia~~ **S. Blankenbaker**
~~Control extension~~ by (III): **R. J. French**

Date: **November 1954**

Planimetry **L. Levin**
Stereoscopic Instrument compilation (III): **W. Heinbaugh**
Contours **L. Levin**
W. Heinbaugh

Date: **November 1954**

Date: **January 1955**

Manuscript delineated by (III): **Shoreline - R. Sugden
Topography - R. Sugden**

Date: **November 1954
March 1955**

Photogrammetric Office Review by (III): **Orvis N. Dalbey**

Date: **24 May 1955**

Elevations on Manuscript
checked by (II) (III): **Orvis N. Dalbey**

Date: **24 May 1955**

Camera (kind or source) (III):

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

PHOTOGRAPHS (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

Tide (III)

Reference Station: Sweeper Cove, Adak
Subordinate Station: Hot Springs, Tanaga (West Coast)
Subordinate Station: Kanaga Bay, Kanaga (East Coast)

Diurnal		
Ratio of Ranges	Mean Range	Spring Range
		3.9
		3.1
		3.9

Washington Office Review by (IV):

Date:

Final Drafting by (IV):

Date:

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV):

Date:

Land Area (Sq. Statute Miles) (III): T-9940 25 sq. mi.
T-9941 4 " "

(20, 12, 11 (7, 00, 0))

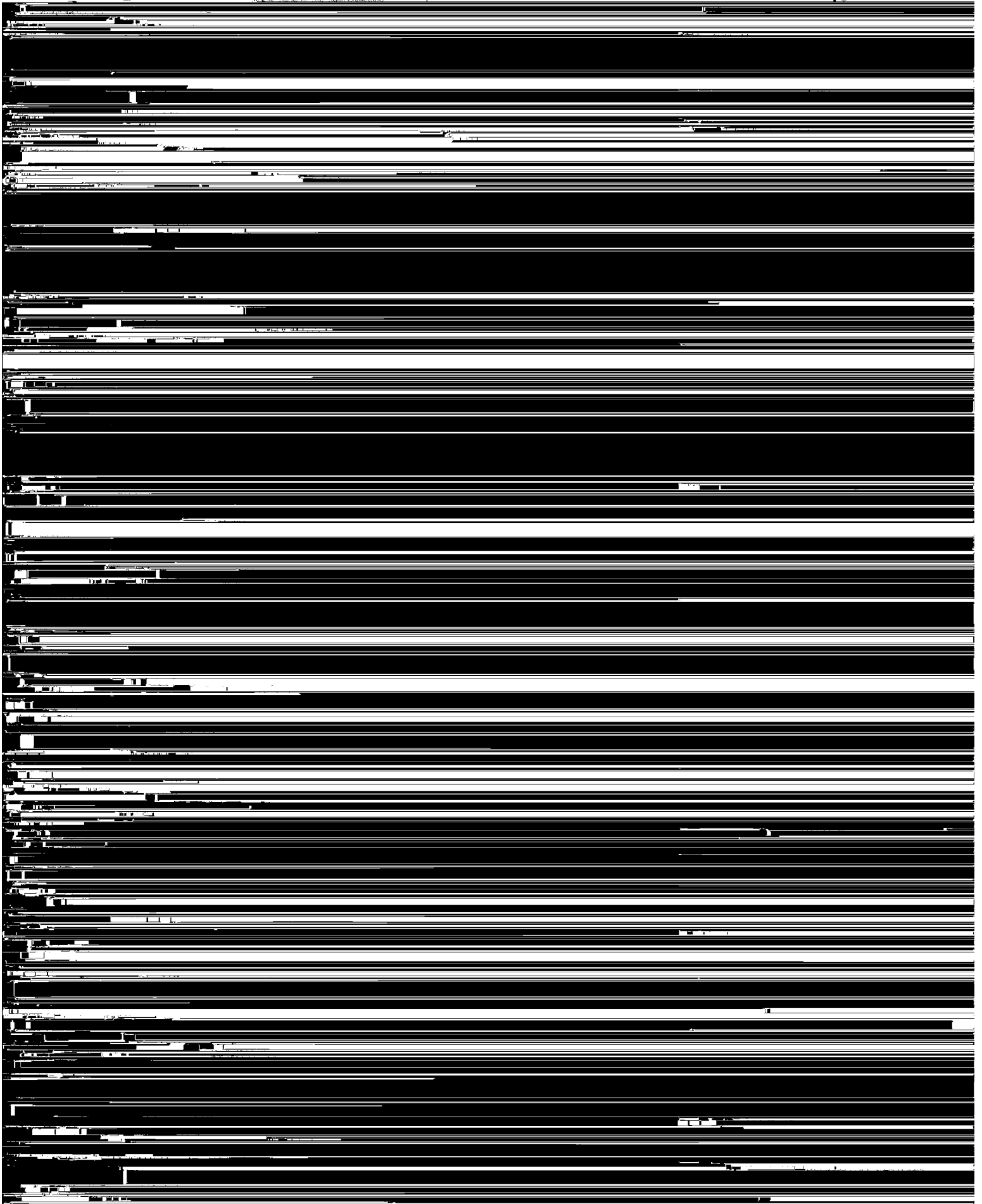
Summary to Accompany T-9940 and T-9941

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.

Amati

Amchitka



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.

MAP T. 9940 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y -COORDINATE LONGITUDE OR x -COORDINATE	DISTANCE FROM GRID IN FEET. OR PROJECTION LINE IN METERS		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)
Mast 1943	Vol. V p. 183	NA 1927	51-43-06.757 177-11-43.119			208.8 (1645.6)		
Front, 1943	" p. 183	"	51-42-21.144 177-11-53.890			827.8 (324.1)		
Rear, 1943	" p. 179	"	51-42-28.870 177-12-03.690			653.5 (1200.9)		
Knob, 1943 (P-020)	" p. 183	"	51-44-45.971 177-15-58.346			1034.8 (117.3)		
Cliff, 1943 (P-021)	" "	"	51-42-29.464 177-14-20.880			892.3 (962.1)		
						70.9 (1081.2)		
						1420.8 (433.6)		
						1119.4 (31.7)		
						910.6 (943.8)		
						400.9 (751.2)		
Perch 1954		"	51-43-47.787 177-12-20.275			1476.9 (377.5)		
						389.2 (762.4)		
Cog. (SW Cor. pier) 1954	Topo		51-43-05.505 177-11-53.447			170.1 (1684.2)		
						1026.1 (125.8)		

1 FT. = 3048006 METER
COMPUTED BY: C.O. DeMarr
CHECKED BY: R. J. French
DATE 26 Oct. 1954
DATE Oct. 28, 1954
M-2388-12

MAP T- 99/1 PROJECT NO. Ph-34 SCALE OF MAP 1:20,000 SCALE FACTOR 1.0

[illegible]

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 delineation, 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
Wallace Heinbaugh
Cartographer

Approved:

Orvis N. Dalbey
Orvis N. Dalbey
Supervisory Cartographer

GEOGRAPHIC NAMES

Survey No. T-9940 and
T-9941

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	
<u>T-9940</u>									1
<u>Aleutian Islands</u>									2
<u>Angora Point</u>									3
<u>Cape Tusik</u>									4
<u>Indian Point</u>									5
<u>Kanaga Bay</u>									6
<u>Kanaga Island</u>									7
<u>Kayak Cove</u>									8
<u>Memorial Point</u>									9
<u>Pacific Ocean</u>									10
<u>Point Deceit</u>									11
<u>Range Point</u>									12
<u>Swallow Point</u>									13
<u>Totem Rock</u>									14
<u>Wreck Reef</u>									15
									16
<u>T-9941</u>									17
<u>Adak Strait</u>									18
<u>Aleutian Islands</u>									19
<u>Cape Chlanak</u>									20
<u>False Bay</u>									21
<u>Kanaga Island</u>									22
<u>Pacific Ocean</u>									23
									24
									25
									26
									27

Names approved
8-22-55
A. J. W.

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>Station</u>	<u>Description</u>	<u>Identified on</u> <u>Photo No.</u>
✓HOP	WW	2861 37698
✓GUS	WW	2861 37698
✓FEZ	WW on SW face of higher part of rock	2861
✓EAR	Sign board on top of island	2862
✓DUB	WW on outer face of 15-ft. pinnacle	2860
✓TANK	Water tank	37694
✓BON	White tripod	2859
✓AGE	White tripod	2860
✓TAP	White tripod	2860
✓SAY	West gable cabin	37693
✓RAM	WW on point of cliff	2860
✓PIX	WW on low rock at point of grass	2861 37694
✓NIL	WW on large and northerly of several boulders	2861 37693
✓MOB	WW on SE point of bluff	2862
✓LUG	WW on SE corner of pilot house of wreck. WW not visible on photo	2861
✓KIP	WW	2862
✓JIM	WW	2862
FIG		38997
ELF		38997
DAY		38997
CAT		38997

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 grids ☒ 2. Title ☒ 3. Manuscript numbers ☒ 4. 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 stations ☒ 8. Bench marks ☒
9. Plotting of sextant fixes ☐ 10. Photogrammetric plot report ☒ 11. Detail points ☐

ALONGSHORE AREAS

(Nautical Chart Data)

12. Shoreline ☒ 13. Low-water line ☐ 14. Rocks, shoals, etc. ☒ 15. Bridges ☐ 16. Aids to navigation ☐ 17. Landmarks ☐ 18. Other alongshore physical features ☒ 19. Other along-shore cultural features ☒

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 names ☒ 34. Junctions ☒ 35. Legibility of the manuscript ☒ 36. Discrepancy overlay ☒ 37. Descriptive Report ☐ 38. Field inspection photographs ☒ 39. Forms ☒

40. Ervin N. Dalbey
Reviewer

Supervisor, Review Section or Unit

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:

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:

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.

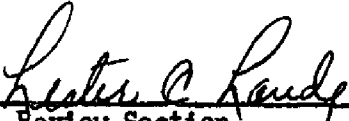
66. Accuracy:

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

Reviewed by:

Lena T. Stevens
Lena T. Stevens

APPROVED:



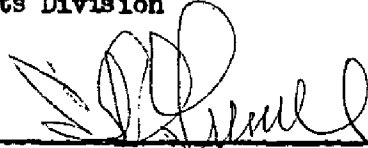
Chief, Review Section
Photogrammetry Division



Chief, Photogrammetry Division
18 July '57 



Chief, Nautical Chart Branch
Charts Division



Chief, Coastal Surveys Division