9339

Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE

Field No. PH-L9(L9) Office No. T-9339

LOCALITY

State SOUTHEASTERN ALASKA

General locality SITKA SOUND

Locality PEDOUDT LAKE

CHIEF OF PARTY

L.C.Lande, Chief, Graphic Compilation Section K.G.Crosby, Div. of Photogrammetry, Wesh.D.C.

LIBRARY & ARCHIVES

DATE OCT 7- 1951

B-1870-1 /1



DATA RECORD

T-9339

Project No. (II): Ph-49(49)Quadrangle Name (IV):

Field Office (II):

Chief of Party: Kenneth G. CEDSby

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

Officer In-Charge: L.C. Lande, Chief, Graphic Compilation Section

Instructions dated (II) (III): 13 June 1945

Copy filed in Division of Photogrammetry (IV) - Office files

Supplemental Instructions CS-247-Photogrammetric Field Work

Method of Compilation (III):

Graphic

Manuscript Scale (III):

1:10,000

Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III):

1.000

Date received in Washington Office (IV): 2-16-50 Date reported to Nautical Chart Branch (IV): 2-24-38

Applied to Chart No.

Date:

Date registered (IV):

9-12-51

Publication Scale (IV):

Publication date (IV): ---

Geographic Datum (III):

N.A. 1927

Vertical Datum (III): M. H. W.

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):

ILPUT, 1943

Lat.: $56^{\circ}54^{\circ}22.569^{\circ}$ (698.1) Long.: $135^{\circ}21^{\circ}51.817^{\circ}$ (877.0)

Adjusted Unadjoeted-

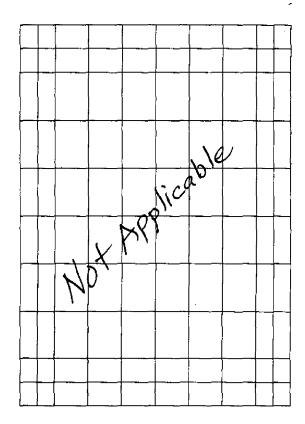
Plane Coordinates (IV):

State:

Zone:

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.



Areas contoured by various personnel (Show name within area)
(11) (11)

DATA RECORD

Field Inspection by (II): K. G. Crosby	Date: Sept. 00	1946
Planetable contouring by (II):	Date:	
Completion Surveys by (II):	Date:	
 Mean High Water Location (III) (State date and method of location): (1) MHW line shown on 1942 nine-lens photographs in 1945. (2) Graphic control surveys (see compilation reports) 		ted
Projection and Grids ruled by (IV): W. E. Ward	Date: /94	19
Projection and Grids checked by (IV): W. E. Ward	Date: 194	-
Control plotted by (III): S. G. Blankenbaker	Date: Dec. 192	49
Control checked by (III): R. W. Williams	Date: Dec. 194	49
Radial Plot or-Storeoscople S. G. Blankenbaker Control extension-by (III):	Date: Jan. 19	50
Planimetry Stereoscopic Instrument compilation (III):	Date:	
Contours	Date:	
Manuscript delineated by (III): S. G. Blankenbaker	Date: Jan. 19	50
Photogrammetric Office Review by (III): G. B. Willey	Date: Apv. 195	-0
Elevations on Manuscript checked by (II) (III):	Date:	

Form T-Page 3

M-2618-12(4)

. Camera (kind or source) (III):

		PHOTOGRAPHS (III)		
Number	Date	Time	Scale	Stage of Tide
09387-09391	7/8/42	9:08-9:10	1:10,000	
09397-09402	" " "	9:17-9:20	TI T	
09405-09409	11	9:25-9:27	11	
09433-09431	11	10:09-10:11	11	
09441-09439	Ħ	10:16-10:17	11	
10532	7/31/42	2:22	μ	
10531	ម	2:22	11	

Tide (III)

Reference Station:

SITKA

Subordinate Station: Subordinate Station:

Washington Office Review by (IV): G. B. Willey

Date 28 Apr. 1950

Mean | Spring

Range

Range

Final Drafting by (IV):

Date:

|Ratio of

Ranges

Drafting verified for reproduction by (IV):

Date:

Proof Edit by (IV): C. Kupiec

1-22-51

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):

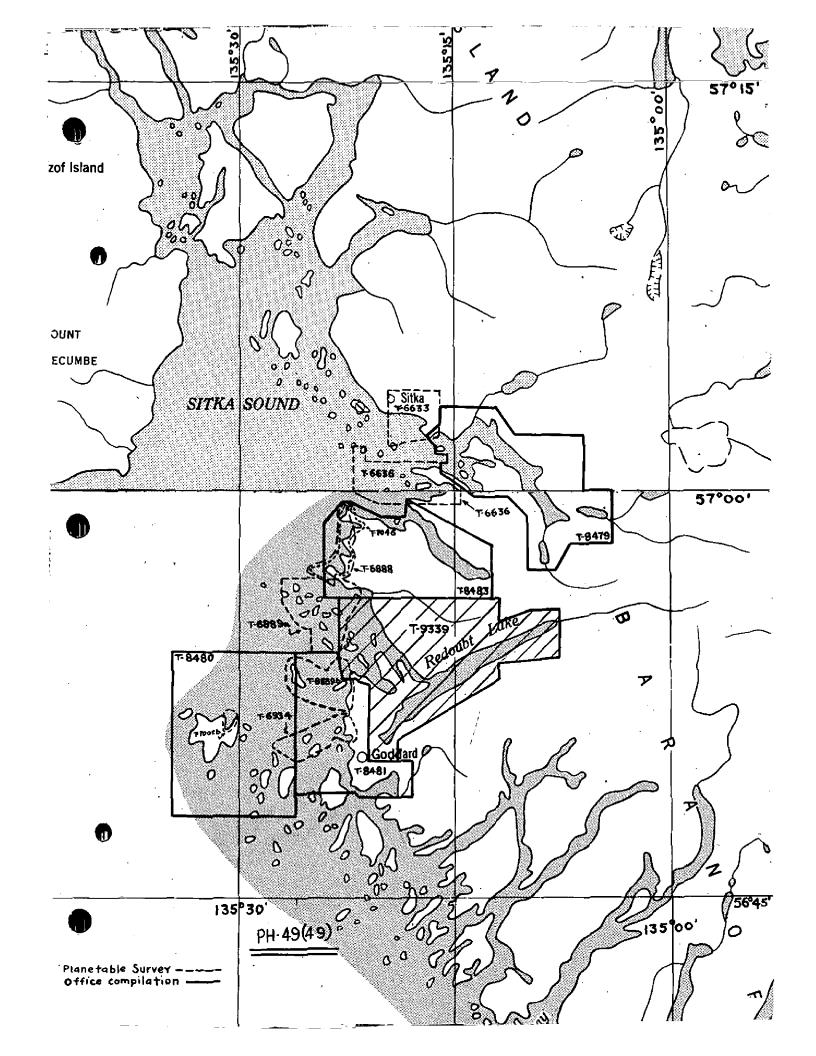
Recovered:

Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:



Summary to Accompany T-9339

Data pertaining to T-9339 is filed as follows:

- A. Division of Photogrammetry General Files.
 - 1. Acetate manuscript
 - 2. Duplicate of the Descriptive Report
- B. Bureau Archives
 - 1. A cloth-backed lithographic print of the revised map at the compilation scale.
 - 2. Registered original Descriptive Report.

FIELD INSPECTION

Field inspection covering T-9339 is contained in 1946
The "Field Inspection Report, Sitka Sound - Southeastern Alaska, Project CS-247" by Kenneth G. Crosby. This report is filed in the general files of the Division of Photogrammetry.

Radial Plot Report

T-9339

21. Area Covered:

22. Method:

Twenty-three acetate templates were made from ninelens photographs taken in 1942 at an approximate scale of 1:10,000. No master calibration template was available for this series of photographs. Difficulty was experienced in preparing the photographs. High mountains surround Redoubt Lake and cover the area east of Redoubt Bay. The entire area is heavily wooded and consequently overhang and shadows prevented seeing sections of the shoreline.

23. Adequacy of Control:

The horizontal control was adequate in the Kanga Bay and Redoubt Bay Areas. There are no control stations on Redoubt Lake. The plot was bridged and tied to control stations and pass points in the Deep Inlet Area of shoreline manuscript T-8483. The plot was also tied to a photo center (10531) and pass points south of Silver Bay on shoreline manuscript T-8479.

Seventeen of the field identified triangulation stations that fall on T-9339 were held in the plot. In addition numerous field identified triangulation stations that fall on shoreline manuscripts T-8481 and T-8483 and pass points established by the radial plot for T-8483 were held in this radial plot.

Six field identified triangulation stations that fall on T-9339 were not held in the plot.

- (1) Triangulation Station Kanga, 1943 was held within .7 mm. The station is listed as being of doubtful accuracy on the pricking card. The area is covered by shadow.
- (2) Triangulation Station Gold, 1943 was held within .8 mm. The station is listed as being of doubtful accuracy on the pricking card. The area is covered by shadow and overhanging trees.

Radial Plot Report
T-9339
Page 2

(3) Triangula
.7 mm. The prickin
on the pricking car
extending into the
detail shown on the

(4) Triangula
.8 mm of its geogra
being of positive a
angulation stations
plot.

(5) Triangula
1.0 mm of its geogra

(3) Triangulation Station Bald, 1943, was held within .7 mm. The pricking is listed as being of positive accuracy on the pricking card. The station is on a rocky ledge extending into the water and falls outside the shoreline detail shown on this sheet.

- (4) Triangulation Station Center, 1943, was held within .8 mm of its geographic position. The pricking is listed as being of positive accuracy on the pricking card. The triangulation stations close to Station Center were held in the plot.
- (5) Triangulation Station Gator, 1945, was held within 1.0 mm of its geographic position. The pricking is listed as being of positive accuracy on the pricking card. However, there is a heavy shadow in the area. Three stations in the vicinity were held.
- (6) Triangulation Station Kodon, 1945, was held within .8 mm of its plotted position. Its pricking is listed as being of doubtful accuracy on the pricking card.

24. Supplemental Data:

(1) Graphic Control Board T-7002a was used as supplemental control for the radial plot. Numerous signals were identified on the field photographs. No recovery cards were submitted and the only data consisted of the "W.W." notations on the field photographs. Stations Art, Van, Caw, Cob, Rot and Pep were held in the plot. The planetable shoreline agrees with the field photograph and radial plot interpretation in most instances and has been shown on T-9339 in red where the two surveys are in agreement. The shoreline as interpreted from the radial plot and field photographs was applied in black where the two surveys differed.

In the eastern inlet (one of two inlets at the head of Redoubt Bay) the Graphic Control Survey shoreline does not agree with the shoreline shown on T-9339. There are no triangulation stations in the inlet. An attempt was made to hold Topographic Stations Pie, Yet, and Dix and they were held within approximately .7 mm. The three stations are off in the same direction, however they could not be held and hold to triangulation stations positions which were not in the immediate vicinity, but were close enough to be considered of more value to the radial plot.

(2) Graphic Control Board T-6889b: The area around and directly south and west of Triangulation Station Kan, 1942, does not agree with the interpretation shown on T-9339. High water photographs and field inspection data seem to give a better interpretation.

Radial Plot Report T-9339 Page 3

(3) Graphic Control Board T-6889a: The detail in the area around Round Island, Triangulation Stations Bolt, 1942, Pipe, 1942, and Bolt, 1942, was transferred from the graphic control board to T-9339, and is shown in red ink.

In general the plot was good in the heavily controlled Kanga Bay and Redoubt Bay areas. Few good pass point intersections were obtained in the high mountainous areas. Difficulty was experienced in bridging the plot to tie to the radial plot for T-8433 and T-8479.

Submitted by D. G. Blanken bake

Approved by L. C. Land

*Ratings as given on pricking data

	Station pricked on						Area covered by shadow Shadows - overhanging	ı								Shadows on photos.			
Accuracy <u>Tolerance</u>	Held Held Held	Held	Held	Held	Held Held Held		nn 7.		.7 mm	Held	Held	8 mm	Helà	Held	Неда	Held 1.0 mm	1	Held Held	.8 mm
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Pricking Source	Pricked Direct Pricked Direct Pricked Direct	Pricked Direct Card	Pricked Direct Card	Pricked Direct Card	Pricked Direct Pricked Direct Card	Card	Discontinue Contract		Pricked Direct	card Pricked Direct	Card	Card	Card	Card	Card	Card Card	Pricked Direct	F 5:	Card
Recovery Date	9-25-45	9-25-45	9-24-45	. 10-17-45	9-20-45	9-21-45	#/ OF O	Y-17-40	10-2-46		9-20-45	9-20-45	9-19-45	9-19-45	9-19-45	9-19-45	- - -	10 - 17 - 45 $10 - 17 - 45$	10-17-45
Recovery Photo	09397 09391 09391	09391	16860	86860	09391 09391 09390	06360		08580	09379	09398	09399	68860	63860	88860	68860	09388) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	00760	00760
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-N.A. 1927 DATUM Sheet	N A 1927 DATUM	
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		C TO T OFFICE

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		COMPLITED RY.	·B.	AC	November	otting		• 11.	M-2388-1

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STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR y-COORDINATE LONGITUDE OR x-COORDINATE	N.A.1927 DATKM BISTANGE FROM ORID IN FEET. ORPROJECTION LINE IN METERS FORWARD (BACK)	DATUM	N.A. 1927 DATUM. DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	Sheet 3 of 3 FACTOR DISTANCE IN METERS FORWARD (BACK)
	•	1	56054146.808	1747.9 108.07			
. ROUND, 1942	814	135.1	135 22 48.071	813.4 201.85			
	•		56 53 40.229	1244.4 / 611,58			
, KAN, 1942	814	1927	135 23 00.418	7.1 1008,72			
CAM, 1924			56 52 12.135	375.4 / 1480.6			
* (Elev.2028')	333	1927		10.8 / 1005.7			
	•		56 54 01.951	60.3 7795.6			
NISH, 1924	838	1927	135 17 02.369	40.1 975.5			
38 TH	•		56 55 33.809	1045.8 \ 810.2			
. ROAD, 1942	814	1927	135 21 04.673	79.0 / 935.9			
1	*		56 55 46.219	1429.7 / 1,26.3			•
. KIZ, 1943	818	1927	20 52.				
	•		56 55 36.472	1128.2 / 727.8			
. BOLT, 1942	820	1927	135.22 42.505	719.0 295.9			
C/OL @010	* 0Cb	4001	56 55 51.433	1591.0 265.0			
	020	1761	135 21 44.347	750.0 264.7			
				lan.			
COMPUTED BY. G.B.W.		PA DA	DATE Nov. 22, 1949	Plotting ckd	d by R.W	J.W. DATE	M.2388.12

Compilation Report T-9339

31. <u>Delineation</u>:

The graphic method was used in compiling the manuscript. There was no field inspection in Redoubt Lake. Sections of the shoreline were covered by heavy shadows and other areas were covered by overhanging trees. The shoreline inspection in the Kanga Bay and Redoubt Bay areas was complete. However, heavy shadows covered sections of the shoreline on all photographs.

32. <u>Control</u>:

The control was adequate in regard to density, placement and identification in the Kanga Bay and Redoubt Bay areas. There is no control on Redoubt Lake.

- \$3. Supplemental Data: Graphic Control Boards T-7002a, Market T-6889b and T-6889a were used to supplement the photographs. Shoreline has been transferred from these boards in some instances and shown in red on the manuscript. See paragraph 24, Supplemental Data, in the radial plot report.
- 34. Contours and Drainage: Not applicable.
- 35. Shoreline and Alongshore Details:

The shoreline inspection was adequate except in Redoubt Bay.

The low water and shoal lines were based principally on field inspected photographs and planetable board interpretations. Office interpretation was used in some instances.

36. Offshore Details:

Offshore details were shown on graphic control boards or were shown on field inspected photographs.

- 37. Landmarks and Aids: Not applicable.
- 38. Control for Future Surveys: Not applicable.

39. Junctions:

(1) T-8481 - junction agrees, (2) T-8483 - junction agrees, (3) T-8482: The area of T-8482 that overlaps T-9339 has been superseded by this manuscript. The area of T-8482 to the north and west of this manuscript has been superseded by T-8483 and planetable board T-6889a.

Compilation Report T-9339 Page 2

40. Horizontal and Vertical Accuracy:

The western section of the manuscript in the Kanga and Redoubt Bay area is believed to be of standard map accuracy. Although the plot was bridged tief to the control on T-8483 in Deep Inlet and secondary radial plot control on T-8479. The radial plot position of the Redoubt Lake shoreline may be out up to approximately 3 mm due to lack of control in this area.

- 46. Comparison with Existing Maps: Not applicable.
- 47. Comparison with Nautical Charts:

Chart No. 8255. Published in 1943, revised 1945, 40/7.

Items to be Applied to Nautical Charts:

Only a small section of Redoubt Lake is shown on Nautical Chart 8255. There is an apparent difference in geographic position between T-9339 and Nautical Chart 8255 in the Kanga Bay and Redoubt Bay area.

PHOTOGRAMMETRIC OFFICE REVIEW

T- 9339

1. Projection and grids2. Title3	3. Manuscript numbers4. Manuscript size
CONT	ROL STATIONS
5. Horizontal control stations of third-order or higher	accuracy 6. Recoverable horizontal stations of less
	7. Photo hydro stations8. Bench marks
·	netric plot report 11. Detail points
7. Floring of Sextally lives	The bottle points
ALON	GSHORE AREAS
(Naut	ical Chart Data)
2. Shoreline13. Low-water line1	14. Rocks, shoals, etc15. Bridges16. Aids
	Other alongshore physical features 19. Other along -
hore cultural features	•
	·
- PHYSI	CAL FEATURES
	er 22. Planetable contours <u> </u>
	eral25. Spot elevations26. Other physical
eaturesX	20. opp. diotalisio
eatules	
CULTU	RAL FEATURES
	roads 30. Other cultural features
ВС	DUNDARIES
1. Boundary lines 32. Public land lines	<u>X</u>
MISC	CELLANEOUS
3. Geographic names 34. Junctions	35. Legibility of the manuscript 36. Discrepancy
•	
BWiller,	39. Forms 39. Forms
Reviewer	Supervisor, Review Section of Unit
1. Demonto (see attached about)	,
41. Remarks (see attached sheet)	
	AND CORRECTIONS TO THE MANNESSEE
	AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field on manuscript is now complete except as noted under it	ompletion survey have been applied to the manuscript. The em 43.
Compiler	Supervisor
3. Remarks:	M-2661-12

Review Report T-9339 Shoreline Map 28 April 1950

61. General Statement.-Shoreline map T-9339 covers the area of Sitka Sound-Redoubt Lake, southeastern Alaska, from latitude 56°51' to 56°56' and longitude 135°08' to 135°23'. This shoreline map was compiled to furnish shoreline for nautical charts.

62. Comparison with Registered Topographic Surveys. --

T-6889a 6889b	1:10,000	1942-43
6889b	ft	1942
70022 See hydra.	t#	1942 - 43 1942 1945

Refer to paragraph 24, Supplemental Data, in the radial plot report. T- 9339 supersedes there surveys for nautical chaiting purposes. Comparison with Maps of other Agencies .-

6lı. Comparison with Contemporary Hydrographic Surveys .-

> 1942-43 1945 н-6948 7096 1:10,000

No discrepancies were noted between T-9339 and these surveys.

65. Comparison with Nautical Charts. -

8255 1:40,000 5th ed. Corr. 8-2-48

Refer to item 47 for difference between the majorand Adequacy of Results and Future Surveys. This map is the chart. adequate for use as a base for construction of nautical charts and meets the accuracy requirements of the Bureau for shoreline maps, except as is qualified in Item 40, of the Compilation Report "Horizontal and Vertical Accuracy".

Reviewed by:

APPROVED:

Chief, Review Spellon

Div. of Photogrammetry

Nautical Chart Branch Division of Charts

Chief, Div. of Coast/1 Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. 7-9339

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-4-58	8255	RE. Elkins	Examined - no revisions (part. app) Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
		3	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
			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.