8483

Diag. Cht. No. 8252-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey SHORELINE-PHOTOGRAMMETRIC

Field No. Ph-49(49) *Office No.* T-8483

LOCALITY

State SOUTHEASTERN ALASKA

General locality SITKA SOUND

Locality DEEP INLET

194 7

CHIEF OF PARTY

G. E. Boothe, Division of Photogrammetry, Washington, D. C.

LIBRARY & ARCHIVES

DATE

B-1870-1 (1)

8483

DATA RECORD

T -8483

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

Field Office (II): Chief of Party:

Photogrammetric Office (III): Washington, D. C. Officer-in-Charge: K. T. Adams

Instructions dated (II) (III): 14, April, 1947 Copy filed in Division of Photogrammetry (IV) Office Files

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): 11-28-49 Date reported to Nautical Chart Branch (IV): 11-30-49

Applied to Chart No. Date: Date registered (IV): 2 - 8 - 52

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

Geographic Datum (III): N.A. 1927 Vertical Datum (III): MHW

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): Sandy Cove, 1947 (d.m.)

Lat.: 56°58'06.907"(213.7) Long.: 135°18'14.234"(240.4) Adjusted

Plane Coordinates (IV): —— State: —— Zone: ——

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)

DATA RECORD

Field Inspection by (II): Arthur E. Wardell Date: 1947

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 1947 field inspected photographs taken in 1942
(2) Planetable sheets (see compilation report)

Projection and Grids ruled by (IV): W. E. Ward Date: 4-19-49

Projection and Grids checked by (IV): W. E. Ward Date: 4-19-49

Control plotted by (III): R. Williams Date: 4-21-49

Control checked by (III): E. H. Ramey Date: 4-21-49

Radial Plot ~~of Stereoscopic Instrument Compilation~~ by (III): E. H. Ramey
S. G. Blankenbaker Date: 5-27-49

Stereoscopic Instrument compilation (III):
Planimetry Date:
Contours Date:

Manuscript delineated by (III): S. G. Blankenbaker Date: August 1949

Photogrammetric Office Review by (III): G. B. Willey Date: Oct. 1949

Elevations on Manuscript checked by (II) (III): ——— Date: ———

Camera (kind or source) (III):

PHOTOGRAPHS (III)

	Number	Date	Time	Scale	Stage of Tide
Photos	09410-13	7-8-42	9:28 to 9:29	1:10,000	5.2 Ft.
used	09414-19	"	9:34 to 9:37	"	5.3"
in	09442-48	"	10:17 to 10:21	"	5.6"
Radial	09500-05	"	10:50 to 10:52	"	5.7"
Plot	09506-10	"	10:55 to 10:56	"	5.6"
	10528-31	7-31-42	2:20 to 2:22	"	6.9"
	10538-40	"	2:30 to 2:31	"	7.4"
	09395-97	7-8-42	9:16 to 9:17	"	5.0"

(Positions obtained from intersections of Azimuth Lines)

Tide (III)

Ratio of Ranges	Mean Range	Spring Range
	7.7	

Reference Station: Sitka

Subordinate Station:

Subordinate Station:

Washington Office Review by (IV): G. B. Willey Date: 18 Sept. 1950

Final Drafting by (IV): R. Reese Date: 6/1, 51

Drafting verified for reproduction by (IV): Chapin - H Steffler Date: 6/1, 51

Proof Edit by (IV): H Steffler Date: 6/11 1951

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):

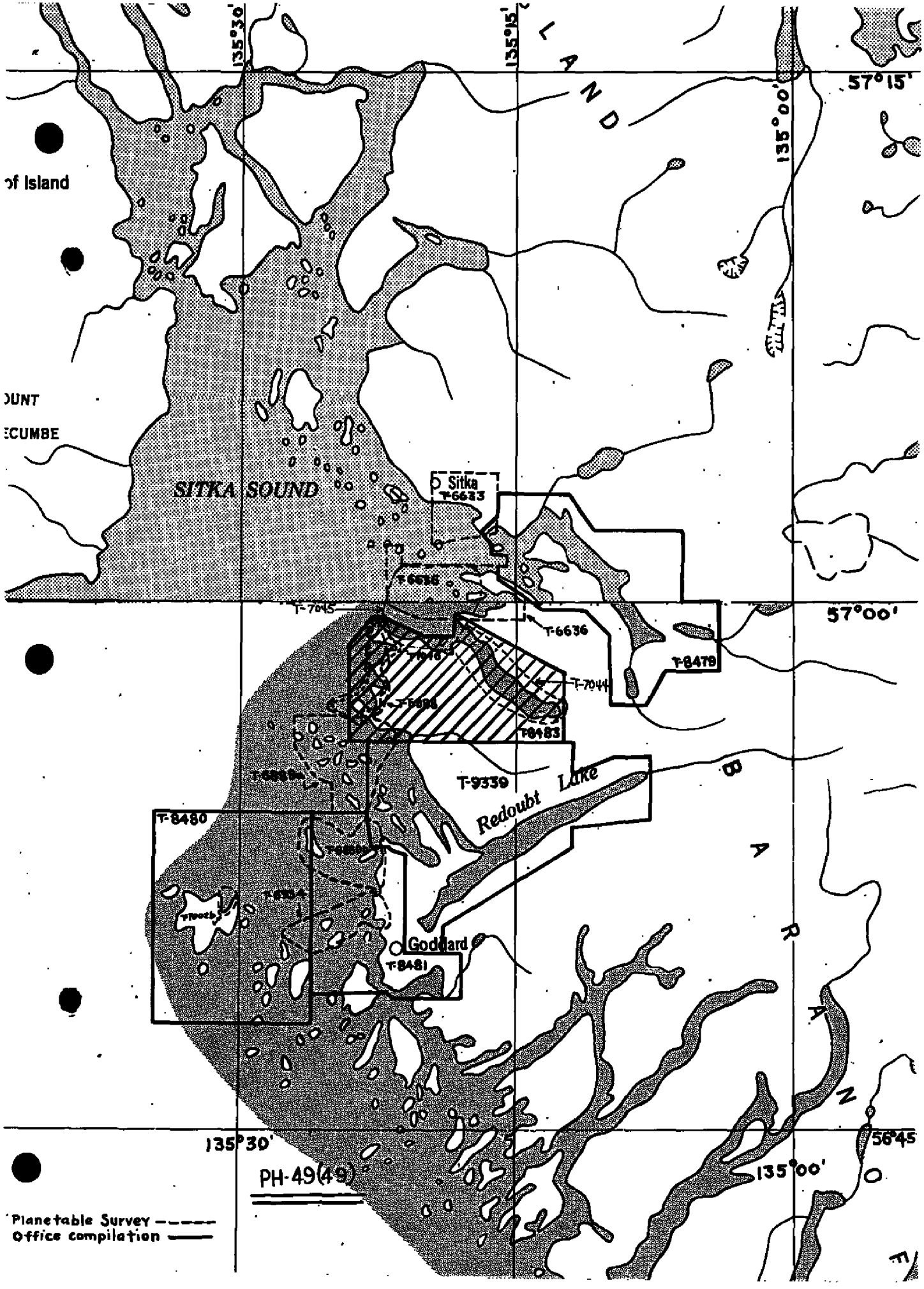
Number of Triangulation Stations searched for (II): Recovered: Identified:

Number of BMs searched for (II): Recovered: Identified:

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:


135°30'
135°15'
135°00'
57°15'
57°00'
56°45'
LAND
of Island
OUNT
ECUMBE
SITKA SOUND
Sitka
T-6633
T-6636
T-7045
T-7046
T-7044
T-8479
T-8483
T-9339
Redoubt Lake
T-8480
Goddard
T-8481
BAR
PH-49(49)
Planetable Survey
Office compilation

Summary to Accompany T-8483

Data pertaining to T-8483 ~~is~~ are 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

MAP T-...T-8483 PROJECT NO. Ph-49(49) SCALE OF MAP 1:10 000 SCALE FACTOR 1.000

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)
		NA	56 59 21.414				662.4	1193.6		
CASTOR, 1947	III862	1927	135 18 23.772				401.4	611.8		
			56 59 06.907				213.7	1642.3		
SANDY COVE, 1947	"	"	135 18 14.234				240.4	772.9		
			56 59 13.558				419.4	1436.6		
INLETS, 1947	"	"	135 18 06.728				113.6	899.7		
			56 58 52.972				1638.6	217.4		
RIGEL, 1947	"	"	135 17 42.778				722.5	290.9		
			56 58 24.508				758.1	1097.9		
NOVA, 1947	"	"	135 17 03.542				59.8	953.8		
			56 58 32.077				992.3	863.7		
MARS, 1947	III862	"	135 16 25.743				434.9	578.7		
			56 57 59.779				1849.2	6.8		
ALTAIR, 1947	"	"	135 16 35.590				601.4	412.4		
	Alaska		57 00 38.770				1199.3	656.7		
LIAR, 1938	P. 774	"	135 21 32.900				555.3	457.4		
			57 00 06.577				203.5	1652.6		
MERTZ, 1938	P. 779	"	135 21 35.703				602.7	410.2		
1938			57 00 37.418				1157.5	698.5		
THE ELKHOLMS LT.	P. 780	"	135 21 25.939				437.8	574.8		
			56 56 11.086				342.9	1513.1		
CAUTION, 1942	P. 815	"	135 21 41.171				696.2	318.4		
			56 57 32.60				1008.4	847.6		
MT. KINKAID, 1942	P. 821	"	135 19 19.39				327.7	686.3		

1 FT.=.3048006 METER

COMPUTED BY: P.W. Williams DATE 4/19/49 CHECKED BY: E.H. Ramey DATE 4/19/49

M-2388-12

MAP T-8483 PROJECT NO. Ph. 49(49) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

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)
		NA	56 58 55.181			1707.0 149.0	
HAMAL, 1947	III 862	1927	135 17 22.245			377.7 637.7	
		"	56 56 37.027			1145.4 710.6	
LEDG, 1942	813	"	135 23 15.218			257.3 757.2	
		"	56 59 03.566			110.3 1745.7	
RUN, 1938	774	"	135 23 29.299			494.8 518.6	
	Alaska	"	56 58 11.939			369.3 1486.7	
NEPTUNE, 1947	P. 863	"	135 16 01.747			29.5 984.2	
		"	56 57 50.607			1565.5 290.5	
LUPUS, 1947	"	"	135 15 14.959			252.8 761.1	
		"	56 57 04.943			152.9 1703.1	
MARKAB, 1947	"	"	135 14 39.565			668.8 345.4	
		"	56 57 26.756			877.7 1028.3	
PEGASUS, 1947	"	"	135 14 24.384			412.1 601.9	
		"	56 57 14.573			450.8 1405.2	
ARGO, 1947	"	"	135 13 20.638			348.8 665.3	
		"	56 59 56.183			1738.0 118.0	
GET, 1938	P 779	"	135 19 18.575			313.6 699.4	
		"	56 59 05.555			171.8 1684.2	
EXTRA, 1938	P 778	"	135 19 05.773			97.5 915.8	
		"	56 59 09.167			2783.6 1572.4	
ROE, 1942	P.815	"	135 20 36.059			609.0 404.3	
		"	56 59 20.039			619.9 1236.1	
PIRATE, 1942	"	"	135 21 54.960			928.1 85.1	

1 FT.=.3048006 METER

COMPUTED BY: R.W. Williams DATE 4/19/50 CHECKED BY: E.H. Ramey DATE 4/19/49

M-2388-12

MAP T- T-8183 PROJECT NO. Ph-49(49) SCALE OF MAP 1:10,000 SCALE FACTOR 1.000

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)
		NA	56 59 58.171			1799.5 56.5	
LONG, 1938	P.778	1927	135 20 16.172			273.0 739.9	
			56 56 57.150			1767.9 88.1	
GRUS, 1947	III863	"	135 13 35.860			606.2 408.1	
			56 57 10.405			321.9 1534.1	
POVO, 1942	813	"	135 24 30.609			517.4 496.8	
			56 58 03.946			122.1 1733.9	
ITSKT, 1938	774	"	135 23 25.492			430.7 583.1	
			56 59 39.124			1210.2 645.8	
CARD, 1942	814	"	135 19 51.580			870.9 142.2	
			56 59 41.179			1273.8 582.2	
RATN, 1938	778	"	135 18 31.036			524.0 489.1	
			57 00 17.700			547.5 1308.5	
MART, 1938		"	135 18 08.499			143.5 869.3	
	Alaska		56 57 34.240			1059.2 796.8	
POLLUX, 1947	III 863	"	135 15 49.519			836.9 177.1	
			56 59 55.545			1718.2	
Fin, 1938	P.779	"	135 16 50.897			859.2	

1 FT. = .3048006 METER

COMPUTED BY: R.W. Williams DATE 4/19/49 CHECKED BY: E.H. Ramey DATE 4/19/49

M-2388-12

27. Radial Plot.-This item, covering the continuous radial plot of T-8479 and T-8483, is filed with the Descriptive Report for T-8479.

31. Delineation.-The graphic method was used in compiling the manuscript. Detail is not shown on the manuscript in the areas around Emgeten and Long Islands and South of Povorotni Point. See 33. Supplemental Data concerning these areas.

32. Control.-The control is satisfactory in regard to identification, density and placement. Triangulation Station Grus, 1947, Sub. Pt. was not held in the plot. See 33. Supplemental Data in regard to this station.

33. Supplemental Data.- (1) T-6888 (1942) - In some instances (1:10,000 scale) the planetable survey does not agree with the radial plot and field inspected photographs in regard to shape of shoreline and the geographic positions of rocks, rock islands and the MHW line. The planetable interpretation has been used and detailed in red with the following exceptions:

(1) Small bays not included in the planetable survey.
(2) Mielkoi Cove - this area is mentioned in the descriptive report for T-6888 as the bay to the S.E. of Triangulation Station ITSKI. An error of ten meters was not straightened out due to the party abandoning the project.
(3) Rocks identified on the field photographs but not shown on T-6888.
(4) The area around Triangulation Station POVO, 1942. This area as shown in red on the manuscript was transferred from planetable board T-7046 (1947).
(5) Rocks and rock elevations taken from T-7046 (1947).
(6) Additional data taken from the photographs field inspected in 1947 has been applied to planetable board T-6888 in the area south of Povorotni Point.

In instances where rocks were shown on T-6888 without elevations and elevations for these rocks were indicated on the field photographs, the rocks have been delineated in red and their elevations shown in black.

The elevations as indicated on the field photographs were accepted and shown in black where the elevations shown on the photographs differed from elevations shown on the planetable board.

Elevations designated as awash HW and awash LW on the planetable board have been changed to MHW and MLLW on the manuscript.

Elevations noted on the planetable board as awash at 1/2 and 1/4 tide have been converted to MLLW datum on the manuscript using the 7.7 ft mean range of tide at Sitka. 9.1 ft, should have been used. Values have been accepted as notes of uncovering are general. RHC

1:10,000 Scale

(II) T-7046 (1947) - With the exception of the area around triangulation Station POVO, 1942 and the rocks offshore south of Povorotoni Point only short sections of the shoreline are shown on the planetable board. These sections of shoreline do not agree with planetable board T-6888 in all areas. Generally the shoreline on T-7046 agrees with the radial plot in position and north of Three Entrance Bay the shoreline shown on the manuscript in black was transferred from T-7046. In Three Entrance Bay the planetable MHW line does not agree with the MHW line shown on the manuscript.

The rocks on the planetable board agree fairly closely in position and elevation in most instances with the radial plot and field photograph interpretation. Rocks that are shown on T-7064 (1947) and are not indicated on the field photographs have been transferred from T-7064 to the manuscript and shown in black. Rocks and their elevations were transferred from T-7064 to the manuscript and shown in red in instances where they were indicated on T-7064, T-6888 and the field photographs.

The area around triangulation Station POVO, 1942 has been transferred from T-7064 to the manuscript and shown in red. T-7064 and T-6888 do not join satisfactorily in this area. A junction has been made and shown in red on the manuscript. The rocks south of Povorotni Point have been transferred to the manuscript.

1:10,000 scale

(III) T-6889a (1942) - Additional data on the photographs field inspected in 1947 has been applied to the planetable board and shown in green.

1:10,000 Scale

(IV) T-7045 (1947) - Generally the short sections of MHW line, rock positions and elevations agree closely with the radial plot and photograph data. Positions and elevations of rocks were taken from the planetable board and applied to the manuscript in black. Those sections of shoreline that agree closely have been taken from T-7045 and applied to the manuscript. No shoreline or rocks are shown in red in this area.

(1:10,000 scale)

(V) T-7044(1947) - No discrepancies were noted except at the head of Deep Inlet in the vicinity of Triangulation Stations Grus, 1947 and Argo, 1947. Control station Grus, 1947, Sub. Pt., the only control station used in the immediate vicinity was not held in the radial plot and its radial plot position falls 1.7 mm north of its plotted position. No satisfactory check can be made of the discrepancy. The position of the MHW line on the planetable board north of Grus, 1947 does not agree with the station description. The station is described as being 81 ft. south of the MHW line. The detail was applied using the radial plot position for the Sub. Pt. for Triangulation Station Grus, 1947 and the MHW line fall approximately 81 ft. north of the station described.

(1:10,000 Scale)(1938)

(VI) T-6636 - Notes pertaining to rock elevations and additional rocks on the field photographs have been applied to the planetable board. No attempt was made to apply differences in interpretation of MHW line to the planetable board.

34. Contours and Drainage.-Drainage on heavily wooded mountain slopes could not be delineated accurately and is shown as probable drainage unsurveyed.

35. Shoreline and Alongshore Detail.-The shoreline inspection was adequate. The MHW line is probably generalized somewhat in areas covered by overhanging trees. The low water data is based principally on field inspected photographs and the planetable boards. Office interpretation has been used in some instances.

36. Offshore Details.- Inapplicable

37. Landmarks and Aids.-Inapplicable

38. Control for Future Surveys.-A control station identification card was submitted for topographic station Cab. No form 524 was submitted. The station is one of a number of Topo Stations found on the planetables that were sent in by the field party to supplement the control.

39. Junctions.-(1) T-6636 - (2) 6889a. (3) T-9339

40. Horizontal and Vertical Accuracy.-See Supplemental Data.

46. Comparison with Existing Maps.-T-8482 (Radial Plot Compilation) shorelines do not agree closely. The control for T-8482 was recovered in the office and office interpretation of the MHW line was used. T-8483 supersedes ~~the~~ T-8482 in the area of common detail. The No. "T-8482" has been canceled, and this sheet is filed in the Nautical Chart Branch as B.P. No. 46,616. HBW.

47. Comparison with Nautical Charts.-Chart Number 8255, August 1948.

Items to be applied to Nautical Chart immediately:

None

Items to be carried forward:

None

Submitted by: S. G. Blankenbaker
S. G. Blankenbaker

Approved by: L. C. Lande
L. C. Lande

IDENTIFICATION DATA
Horizontal Control
Project Ph-49(49), CS-247

Station Name	Recovery Photo	Recovery Data	Pricking Data * Source	Remarks	Accuracy Tolerance	Remarks
T-8483						
Pipe, 1942			Topo Survey No.6889a	COffice identified	Held	Also desc. on p37 Traing.Des. Alaska#40
Povo, 1942, Sub. Sta.	09395	6/16/47	Card	Fair Sketch	Held	
Calming, 1942	09395	6/16/47	Card	Good Sketch	Held	
Itski, 1938 Sub. Sta.	09395	6/16/47	Card	Sketch Positive	Held	
Run, 1938	09413	6/16/47	Card	Sketch Fair	Held	
Card, 1942 Sub. Sta.	09414	6/24/47	Card	Sketch Positive	Held	
Mart, 1938 Sub. Sta.	09415	6/13/47	Card	Sketch Positive	Held	
Hamal, 1947	09416	7/15/47	Card	Sketch Positive	Held	
Pollux, 1947 Sub. Sta.	09417	7/15/47	Card	Sketch Positive	Held	
Grus, 1947 Sub. Sta.	09419	7/15/47	Card	Sketch Positive	1.7mm	similar point falls at radial plot position
Rain, 1938 Sub. Sta.	09415	6/16/47	Card	Sketch Positve	Held	
Cab (Topo. Sta.)	09412	6/13/47	Card	Sketch Positive	Held	

*Ratings are as given on pricking data.

Form T-2

PHOTOGRAMMETRIC OFFICE REVIEW

T- 8483

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 alongshore 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. G B Willey — Reviewer; L C Landy — 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:

M-2661-12

Survey No. T-8483

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	G Rand McNally	H U. S. Light List	K	
Southeastern Alaska										1
✓ Sitka Sound										2
✓ Baranof Island									USGB	3
✓ Povorotni Point										4
✓ Mielkoi Cove										5
✓ Three Entrance Bay		(improve application of name)								6
✓ Cape Burunof									USGB	7
✓ Pirate Cove										8
✓ Samsing Cove										9
✓ Sandy Cove										10
✓ Deep Inlet										11
Kiztuchia Creek } check with Heck										12
Caution Island } (both on ch. 8288 LW)										13
					Names underlined in red are approved. 11-2-49 L. Heck					14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

M 234

Review Report T-8483
Shoreline Map
18 September 1950

61. General Statement.-Shoreline map T-8483 covers the area of Sitka Sound - Deep Inlet, Southeastern Alaska from latitude 56°56' to 57°00' and longitude 135°13' to 135°24'. This shoreline map was compiled to furnish shoreline for nautical charts.

62. Comparison with Registered Topographic Surveys.-

T-6636	1:10,000 scale	1938	Topo
T-6888	" "	1942	Topo
T-6889a	" "	1942	Topo
T-7044	" "	1947	G.C.
T-7045	" "	1947	G.C.
T-7046	" "	1947	G.C.

Refer to the Radial Plot Report and to Paragraph 33, Supplemental Data, in the Compilation Report. T-8483 supersedes these surveys for nautical charting purposes.

63. Comparison with Maps of other Agencies.- None

64. Comparison with Contemporary Hydrographic Surveys.-

H-6948	1:10,000 scale	1942-43
H-7096	" "	1945-47
H-7189	" "	1947

No discrepancies were noted between T-8483 and these surveys.

65. Comparison with Nautical Charts.-

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

No significant differences exist between the two surveys with the exception that the largest island in Samsing Cove, shown as one island on the chart, is shown as two islands on T-8483.

66. Adequacy of Results and Future Surveys.-This map is adequate for use as a base for construction of nautical charts and meets the accuracy requirements of the Bureau for shoreline maps.

Reviewed by:

G. B. Willey

G. B. Willey

APPROVED

S. V. Griffith 2/3/52
Chief, Review Section
Div. of Photogrammetry

H. C. Edmunston
Chief, Nautical Chart Branch
Division of Charts

O. S. Reading
Chief, Div. of Photogrammetry

Earl O. Heaton
Chief, Div. of Coastal Surveys