8821

Diagram 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-8821

LOCALITY

State Territory of Alaska

General locality Sitka Sound

Locality Nakwasina Sound and Nakwasina Passage

1949

CHIEF OF PARTY
J.C. Partington, Field
Charles W. Clark, Photo Office

B-1870-1 (1)

8821

DATA RECORD

T -8821

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

Field Office (II): Ship "PATTON" Chief of Party: J.C. Partington

Photogrammetric Office (III): Portland, Oregon Officer-in-Charge: Charles W. Clark

Instructions dated (II) (III): 5th August 1947 (field) Project C.S. 247
17th August 1951 (Office)
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): None

Date received in Washington Office (IV): MAY 8 1952 Date reported to Nautical Chart Branch (IV): MAY 16 1952

Applied to Chart No. Date: Date registered (IV): 12 mar 1955

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

Geographic Datum (III): N.A. 1927 Vertical Datum (III): Mean High Water ~~Mean Sea Level~~

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): YOKEL, 1949

Lat.: 57° 12' 26.326" 814.4 m (1041.7 m) Long.: 135° 22' 41.985" 704.8 m (302.4 m) Adjusted X Unadjusted

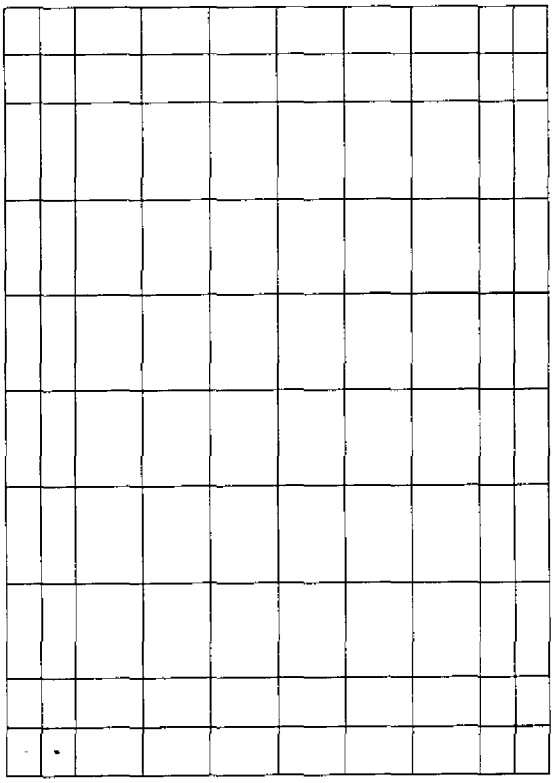
Plane Coordinates (IV): UTM State: Zone: 8

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)



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

DATA RECORD

Field Inspection by (II): Ship "PATTON" Date: Season 1949

Planetable contouring by (II): Inapplicable Date:

Completion Surveys by (II): Inapplicable Date:

Mean High Water Location (III) (State date and method of location): Field inspection location during season 1949 verified by stereoscopic inspection of photographs in photogrammetric office. Line identified on 1942 photographs.

Projection and Grids ruled by (IV): Wash. Office Date:

Projection and Grids checked by (IV): " " Date:

Control plotted by (III): J.L. Harris Date: 9/27/51

Control checked by (III): H.J. Atkins Date: 9/28/51

Radial Plot or Stereoscopic Control extension by (III): J.L. Harris & J.E. Deal Date: 10/24/51

Stereoscopic Instrument compilation (III): Planimetry Date:

Contours Date:

Manuscript delineated by (III): Victor E. Serena Date: 3/7/52

Photogrammetric Office Review by (III): Ree H. Barron Date: 3/17/52

Elevations on Manuscript checked by (II) (III): Ree H. Barron Date: 3/17/52

M-2618-12(4)

Camera (kind or source) (III): USC&GS Nine-Lens

PHOTOGRAPHS (III)

Number	Date	Time	Scale	Stage of Tide
9487 & 9488	7/8/42	10:43	1:10,000	6.7 ft. above M.L.L.W
9521 to 9525	7/8/42	11:03	1:10,000	6.6 ft. above M.L.L.W
10572 to 10577	7/31/42	3:04	1:10,000	10.5 ft. above M.L.L.W
10608 to 10611	7/31/42	3:24	1:10,000	10.9 ft. above M.L.L.W

Tide (III)

Diurnal

Ratio of Ranges	Mean Range	~~Spring~~ Range
	7.7	9.9
1.0	7.8	9.9

Reference Station: Sitka, Alaska
Subordinate Station: Olga Pt., Olga Strait, Alaska
Subordinate Station:

Washington Office Review by (IV): Everett H. Ramey Date: 6 Jan 1953

Final Drafting by (IV): Robinson, A.T. Date: 13 - May 1954

Drafting verified for reproduction by (IV): [signature] Date: 6-8-54

Proof Edit by (IV): Date:

Land Area (Sq. Statute Miles) (III): 1.0
Shoreline (More than 200 meters to opposite shore) (III): 22.6 statute miles
Shoreline (Less than 200 meters to opposite shore) (III): 1.6 " "
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): None
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

Summary to Accompany Descriptive Report T-8821

Shoreline survey T-8821 is one of seventeen similar surveys in Project Ph-49(49). It covers shoreline along portions of Nakwasina Sound and Nakwasina Passage between Sitka Sound and Peril Strait.

Project Ph-49(49) is a graphic compilation project. Field work in advance of compilation included the establishment of horizontal control and the inspection of shoreline. This work was done in conjunction with hydrographic surveys in 1949 of Project CS-247.

This survey was compiled at a scale of 1:10,000 using nine-lens photographs taken in 1942. It covers an area in latitude from 57° 12' to 57° 16½' and in longitude from 135° 18' to 135° 30'.

Items registered under T-8821 will include a lithographic print of the manuscript at a scale of 1:10,000 and the descriptive report.

FIELD INSPECTION REPORT
Map Manuscript No. T-8821
Project Ph-49(49)

Refer to special reports titled:

FIELD INSPECTION OF AIR PHOTOGRAPHS
S.E. ALASKA
NAKWASINA PASSAGE, NAKWASINA SOUND
KRESTOF SOUND & KATLIAN BAY
U.S. COAST & GEODETIC SURVEY SHIP "PATTON"
PROJECT CS-247
J.C. PARTINGTON, CHIEF OF PARTY
1949

Filed under project number in Div. of Photogrammetry.

PHOTOGRAMMETRIC PLOT REPORT
Map Manuscript No. T-8821
Project Ph-49(49)

The radial plot for this map manuscript is described in a combined Photogrammetric Plot Report for Map Manuscripts Nos. T-8475 and T-8819 to T-8821 Incl. which is included in the Descriptive Report for T-8475.

Photogrammetry

MAP T- 8821 PROJECT NO. Ph-49(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

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)
YOKEL 1949 ✓	III	N.H.	57° 12' 26.326"			814.4 (1041.7)	
	890	1927	135° 22' 41.985"			704.8 (302.4)	
UNCLE 1949 ✓	III	"	57° 13' 54.984"			1700.9 (155.2)	
	890		135° 23' 36.021"			604.3 (402.3)	
AKWA 1949 ✓	III	"	57° 14' 54.982"			1700.9 (155.2)	
	888		135° 26' 03.386"			56.8 (949.4)	
✓ JANAR	III	"	57° 15' 12.06 "	Consider as Topo.		373.1 (1483.0)	
LONE TREE near	891		135° 27' 28.44"			476.9 (529.1)	
✓ WAXEN 1949	III	"	57° 13' 29.868"			924.0 (932.1)	
	890		135° 22' 15.278"			256.4 (750.4)	
✓ TUFFY 1949	III	"	57° 13' 54.109"			1673.9 (182.2)	
	890		135° 22' 15.198"			255.0 (751.6)	
✓ QUIET 1949	III	"	57° 14' 16.164"			500.0 (1356.1)	
	889		135° 21' 48.252"			809.4 (197.1)	
✓ SAXON 1949	III	"	57° 14' 41.066"			1270.4 (585.7)	
	889		135° 20' 51.648"			866.2 (140.1)	
✓ PILE 1949	III	"	57° 15' 10.773"			333.3 (1522.8)	
	890		135° 20' 57.144"			958.1 (47.9)	
✓ RANOF 1949	III	"	57° 15' 00.597"			18.5 (1837.6)	
	889		135° 21' 47.376"			794.4 (211.7)	
✓ POSER 1949	III	"	57° 15' 04.596"			142.2 (1713.9)	
	889		135° 22' 57.737"			968.1 (37.9)	
✓ OZONE 1949	III	"	57° 15' 12.653"			391.4 (1464.7)	
	889		135° 24' 13.049"			218.8 (787.2)	

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: H.J. Atkins DATE 9/24/51 CHECKED BY: J.L. Harris DATE 9/27/51

Photogrammetry

MAP T- 8821 PROJECT NO. Ph-49(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

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)
✓ NOXON 1949	III 889	N.A. 1927	57° 15' 13.153"			406.9 (1449.2)	
			135° 24' 49.122"			823.6 (182.4)	
✓ PASS 1949	III 889	"	57° 15' 01.855"			57.4 (1798.7)	
			135° 25' 23.335"			391.3 (614.8)	
✓ LEPUS 1949	III 888	"	57° 14' 55.116"			1705.0 (151.1)	
			135° 26' 42.579"			704.0 (292.1)	
✓ JANAR 1949	III 888	"	57° 15' 10.233"			316.6 (1539.5)	
			135° 27' 28.680"			480.9 (525.0)	
✓ HAGEN 1949	III 888	"	57° 15' 21.655"			669.9 (1186.2)	
			135° 28' 06.097"			102.2 (903.7)	
✓ FABIA 1948	III 888	"	57° 15' 19.378"			599.5 (1256.6)	
			135° 28' 50.319"			843.6 (162.3)	
✓ EDDIE 1948	875	"	57° 15' 17.019"			526.5 (1329.6)	
			135° 29' 21.246"			356.2 (649.7)	
✓ CURSA 1948	875	"	57° 14' 56.345"			1743.0 (113.1)	
			135° 28' 56.266"			943.5 (62.6)	
✓ DELTA 1948	III 888	"	57° 14' 59.996"			1856.0 (0.1)	
			135° 28' 47.276"			792.7 (213.4)	
✓ GLEAM 1949	III 888	"	57° 15' 09.057"			280.2 (1575.9)	
			135° 28' 08.216"			137.8 (868.3)	
✓ IDEAL 1949	III 888	"	57° 14' 59.422"			1838.2 (17.9)	
			135° 27' 34.841"			584.2 (421.9)	
✓ KITAL 1949	III 888	"	57° 14' 53.036"			1640.7 (215.4)	
			135° 27' 13.756"			230.7 (775.4)	

Page 10

1 FT. = .3048006 METER

M-2388-12

COMPUTED BY: H.J. Atkins DATE 9/24/51 CHECKED BY: J.H.arris DATE 9/27/51

Photogrammetry

MAP T-8821 PROJECT NO. Ph-49(49) SCALE OF MAP 1:10,000 SCALE FACTOR None

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)
✓MEDIA 1949	III 888	N.A. 1927	57° 14' 44.210"			1367.6 (488.5)	
			135° 26' 26.553"			445.3 (560.9)	
✓SINA 1949	III 888	"	57° 14' 48.794"			1509.4 (346.7)	
			135° 25' 54.776"			918.6 (87.6)	
✓SAGE 1949	III 889	"	57° 14' 51.219"			1584.5 (271.6)	
			135° 25' 11.328"			190.0 (816.2)	
✓ALLEC 1949	III 889	"	57° 14' 57.697"			1784.9 (71.2)	
			135° 24' 48.454"			812.5 (193.6)	
✓LECKY 1949	III 889	"	57° 14' 56.884"			1759.7 (96.4)	
			135° 24' 38.715"			649.2 (356.9)	
✓ALLAN 1949	III 889	"	57° 14' 42.672"			1320.1 (536.0)	
			135° 23' 10.851"			182.0 (824.5)	
✓VELMA 1949	III 890	"	57° 13' 13.280"			410.8 (1445.3)	
			135° 23' 36.879"			618.9 (388.0)	
✓ZINDA 1949	III 890	"	57° 12' 33.377"			1032.5 (823.6)	
			135° 24' 11.829"			198.6 (808.7)	

1 FT. = .3048006 METER

COMPUTED BY: H.J. Atkins DATE 9/24/51 CHECKED BY: JL.Harris DATE 9/27/51

M-2388-12

COMPILATION REPORT
Map Manuscript No. T-8821
Project Ph-49(49)

Side headings 31, 32, 34, 35, 36, 37, 38, and 40 of the Compilation Report for Map Manuscript No. T-8475 are applicable to T-8821. Remarks relative to the 1948 field inspection should be deleted when referring to these side headings for data concerning this Map Manuscript.

33: SUPPLEMENTAL DATA:

Graphic control surveys used to supplement the photographs are as follows:

PA-B-49 Topographic Survey No. T-7130
PA-C-49 " " No. T-7130
} Graphic Control Surveys

They were used in the same manner as described in the Compilation Report for T-8475.

39: JUNCTIONS:

Satisfactory junctions were made on the west with T-8484 and on the south with T-8819, and T-8475. There were no surveys on the north and east available to this office for junction purposes.

46: COMPARISON WITH EXISTING MAPS:

A detailed comparison was made between Map Manuscript T-8821 and graphic control surveys listed in side heading 33 of this Compilation Report.

Disagreement in the location of the mean high-water line was found between the map manuscript and PA-B-49 at each of the several small portions of shoreline shown on the graphic control survey and with PA-C-49 in the vicinity of station DELTA. *

X

The conclusion is believed to be the same as stated in side heading 46 of the Compilation Report for T-8475.

* Disagreement probably results because shoreline was sketched on the graphic control surveys. EMZ

47: COMPARISON WITH NAUTICAL CHARTS:

Comparison was made by use of the vertical projector with Nautical Chart No. 8281, Scale 1:40,000, Published June 1943 (5th edition), last printed 3/5/51, and hand corrected 4/23/51.

There is a general disagreement in the form and location of the mean high-water line between the chart and the map manuscript.

ITEMS TO APPLIED TO NAUTICAL CHART IMMEDIATELY

"NONE"

ITEMS TO BE CARRIED FORWARD

"NONE"

Approved:

Fred A. Riddell
Officer-in-Charge
Portland Photogrammetric Office

Respectfully Submitted:

J. Edward Deal, Jr.
Cartographer

Review Report T-8821
Shoreline Survey
6 January 1953

62. Comparison with Registered Topographic Surveys.-

2249	1:20,000	1896
2289	1:40,000	1896-97
2304	1:20,000	1897

No major discrepancies exist. Survey T-8821 should supersede these prior surveys for nautical charting purposes for common areas.

63. Comparison with Maps of Other Agencies.- None

64. Comparison with Contemporary Hydrographic Surveys.-

H-7787 PV	1:10,000	1949	}	Discrepancies to be resolved during final verification CFJ
H-7788 PV	1:10,000	1949	}	

Small discrepancies occur between soundings ~~and curves~~ and the shoreline at the following points:

Lat.	57° 13.3	long.	135° 23.6
	57° 14.2		135° 21.2
	57° 14.9		135° 26.2
	57° 15.0		135° 28.0
	57° 14.2		135° 29.8

These areas were carefully examined on T-8821 and no error was indicated. It is believed that the hydrographic survey can be adjusted at these points to resolve these discrepancies. The shoreline added to H-7788 from the graphic control sheets should be revised by this survey.

65. Comparison with Nautical Charts.-

8281	1:40,000	1943	corrected 51 - 3/5

No significant discrepancies exist. Changes made to the manuscript during this review are shown in red.

66. Adequacy of Results and Future Surveys.-Exact detailing of some shoreline features was probably not accomplished because photo-interpretation was difficult due to overhang and shadows obscuring shoreline at streams and bights. Errors resulting from this would be small and of little significance to nautical charting. They could have been eliminated by a much more detailed field inspection and a better spacing of photographs.

This survey is adequate for nautical charting and complies with project instructions.

67. Landmarks.-Two buildings were recommended for charting and one for deletion on Nautical Chart 8281 by the Field Inspection Report for the project dated 1949. Forms 567 were submitted to the Nautical Chart Branch during this review.

68. Topographic Stations.-The following stations were taken from the graphic control sheets (see item 33). Liz 1949, Able 1949, and Lone Tree Near Vanar 1949. No Forms 524 were available for these stations at the time of this review.

Reviewed by:

Everett H. Ramey

Everett H. Ramey

APPROVED

L C Lande 23 Mar 1953

Chief, Review Section
Div. of Photogrammetry

Wallace A. Bruder

Acting Chief, Nautical Chart Branch
Division of Charts GFW

Maj. G. Rickatts

Chief, Div. of Photogrammetry

Earl O. Heaton

Chief, Div. of Coastal Surveys

48: GEOGRAPHIC NAMES LIST:

T-8821

According to the field inspection reports submitted by the Ship "PATTON" for the seasons of 1948 and 1949 Project CS-247 no new geographic names or changes in geographic names are recommended. The geographic names shown on this manuscript were obtained from Nautical Chart No. 8281. An alphabetical list follows.

Allan Point
Baranof Island
Halleck Island
Nakwasina Passage
Nakwasina Sound

Limit Island

For title:
Alaska
Peril Strait
Sitka Sound

Names underlined in red are approved.
12-8-52
L Heck

Form 367
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ / ~~XXXXXXXXXXXXXX~~ / TO BE DELETED — STRIKE OUT ONE

~~Washington, D. C.~~ 6 ~~Jan.~~, 19 53

I recommend that the following objects which have (~~have not~~) ~~XXXXXXX~~ been inspected from seaward to determine their value as landmarks be ~~charted on~~ / ~~XXXXXXXX~~ (*deleted from*) the charts indicated.

The positions given have been checked after listing by Everett H. Ramey

~~S. V Griffith, Review Section~~ *Chief of Party.*

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION: LATITUDE ° ′	LATITUDE D. M. METERS	LONGITUDE ° ′	LONGITUDE D. P. METERS	DATUM	METHOD OF LOCATION AND SURVEY NO.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Building	On east shore of small bay just west of Allan Point		57 14	.8	135 23	.8	NA 1927				x		8281 ✓ Corrects
	~~Recommended for deletion by report: Field inspection of Air Photographs, SE. Alaska, Ship PATTON, J. C. Partington, Chief of Party, 1949. Report filed under Project Ph-49(49), Div. of Photogrammetry.~~												

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by [illegible]nformation under each column heading should be given.

16—51695-1 U. S. GOVERNMENT PRINTING OFFICE

Form 567
April 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

TO BE CHARTED
~~TO BE DELETED~~ } STRIKE OUT ONE

Washington, D. C. 6 Jan. 19 53

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by _____

Everett H. Ramey
Chief of Party.

S. V Griffith, Review Section

STATE / CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE ° ′	LATITUDE D.M. METERS	LONGITUDE ° ′	LONGITUDE D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
Buildings	2 bldgs. at topo. sta. Liz in Nakwasina Sound		57 14	1260	135 20	768a	NA 1927	Graphic Control T-8821	1949		x		8281

a Recomputed.

Recommended as landmark by report: Field inspection of Air Photographs, S.E. Alaska, Ship PATTON, J. C. Partington, Chief of Party, 1949. Report filed under Project Ph-4(49), Div. of Photogrammetry.

* Position is that of topographic station Liz 1949 which falls on one of the buildings.

This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

16—51696-1 U. S. GOVERNMENT PRINTING OFFICE

NAUTICAL CHARTS BRANCH

SURVEY NO. T. 8821

Reviewed 6 Jan. 1953

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
			Before After Verification and Review
1958	Reconstr. 8281	Jack Allen	~~Before~~ After Verification and Review SMA
			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
			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.