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Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Photogrammetric
	Shoreline Survey
Field No.	Office No. T-8478
LOCALITY	
State	Alaska
General locality	Attu Island
Locality	Chirikof Point
<u>194 6</u>	
CHIEF OF PARTY	
L. C. Wilder	
K. T. Adams	
LIBRARY & ARCHIVES	
DATE	July 7, 1947

Applied to Chart 9127 Reconstruction ~~Ed Martin~~ 11/25/49

Part Applied to El 9128 - Added off shore rocks reefs - 8/15/51 - HMB

5/27/63 dt 8865 Suboyang Exam of U (Norman) No corr

9-2-92 16423 Ed Martin new chart

DATA RECORD

T-8478

Quadrangle (II):

Project No. (II):

Field Office:

Chief of Party: Lt. Comdr. L. C. Wilder

Compilation Office:
Washington, D. C.Chief of Party: K. T. Adams
Chief, Div. of Photogrammetry

Instructions dated (II III):

16 April 1943

1 Feb. 1944

29 Jan. 1945

Copy filed in Descriptive
Report No. T- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:20,000

Published Scale:

Scale Factor (III): 1.00

Geographic Datum (III): N.A. '27

Datum Plane (III):

Reference Station (III): Dome (USN), 1943-44

Lat.: $52^{\circ}48'31.973''$ 988.4M. Long.: $73^{\circ}18'50.149''$ 939.4M Adjusted
~~Unadjusted~~

State Plane Coordinates (VI):

X = None

Y =

Military Grid Zone (VI)

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
V-12-1 thru V-12-8	9-29-43	Unknown	1:26,000	Unknown
V-10-5	9-24-43	"	1:26,000	"

Tide from (III):

Mean Range:

Spring Range:

Camera: (Kind or source)

Field Inspection by:

date:

Field Edit by:

date:

Date of Mean High-Water Line Location (III): Date of the photographs -
1943

Projection and Grids ruled by (III) T. L. Johnson date: 12-18-46

" " " checked by: S. Rose date: "

Control plotted by: B. J. Colner date: 12-23-46

Control checked by: S. G. Blankenbaker date: "

Radial Plot by: B. J. Colner date: 1- 2-47

Detailed by: B. J. Colner date: 1-29-47

Reviewed in compilation office by: L. C. Lande date: 5-1-47

Elevations on Field Edit Sheet
checked by: date:

STATISTICS (III)

Land Area (Sq. Statute Miles):

Shoreline (More than 200 meters to opposite shore):

Shoreline (Less than 200 meters to opposite shore):

Number of Recoverable Topographic Stations established:

Number of Temporary Hydrographic Stations located by radial plot:

Leveling (to control contours) - miles:

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

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

Remarks:

Descriptive Report
Shoreline Survey T-8478

Field Inspection

Identification of control stations, and a very limited inspection of shoreline details were accomplished in 1945 while locating control for the hydrography H-6990 and H-7088.

Graphic control survey T-7004-A covers the south side of Cherikof Point, apparently no graphic control surveys were made along the north shore and hydrographic control was located by triangulation.

General

This shoreline survey T-8478 has been compiled to locate shoreline and alongshore features not located by the planetable and hydrographic surveys.

Attu Island
Chirikof Point

T-8478

26. Control.

The following 18 triangulation stations were held to during the radial plot:

Man, 1944; Rana, 1944; Kit, 1944; Sara, 1944; Jug, 1944; Jim, 1944; Gob, 1944; Black, 1944; Lug, 1944; Hutch, 1944; Hill (USN), 1943-44; Ricko, 1944; Wow (USN), 1943-44; Rik (USN) 1943-44; Spray, 1944; Fox (USN), 1943-44; S.W. corner of shack near Station Hutch, 1944; N.W. corner of shack near lookout, 1944; Joy, 1944.

Triangulation station Art, 1944 could not be utilized because it was in deep shadow and therefore could not be transferred. Emily, 1944 could not be used because it was not identified on the photographs.

Triangulation stations Peak 7 (USN), 1943-44 and Dot (USN), 1943 fell 1 mm. S.W. of plotted point, Cree (USN), 1943-44 and Cold (USN), 1943-44 fell 1 mm. S. of plotted point, Ridge (USN), 1943-44 fell 1 mm. N. of plotted point, and Black (USN), 1943-44 fell 1.5 mm. W. of plotted point. The photographs are on single weight paper, therefore there is plenty of distortion which probably accounts for the triangulation stations missing.

The following topographic stations were held to during the radial plot:

Lime, Chi, Wat and Can.

The remaining topographic stations were not identified on photographs in the field.

The control was sufficient to establish a strong plot.

27. Radial Plot.

A radial line plot was laid in which 8 celluloid templets were used. The control was satisfactorily spaced and adequate. The radial intersection of all

pass points were good. The topographic stations are shown on the sheet with red circles. The pass points are shown with large blue circles except where there are only two intersecting cuts; these points are denoted by large green circles. Detail points are shown by small blue circles.

There is no photograph coverage for point Off, 1944.

28. Detailing.

There are only two cuts for all points in the area east of $173^{\circ}25'E$.

Between each of 2 photographs there is an area of approximately $1/3$ mile in width where only 2 cuts are available.

For purposes of detailing the photographs may be considered fair. The photographs were of a smaller scale (1:26,000) than the compilation (1:20,000).

These photographs comprised the flight used:

V-12-1 through V-12-8.

Detail was transferred from hydrographic sheets H-6990 (1:10,000), 1944; H-6991 (1:20,000), 1944; H-7088 (1:20,000), 1945, and graphic compilation sheet T-7004a (1:20,000), 1945, and the transferred area was shown in red. The bluff line, ridge lines, drainage, foul lines, offshore rocks and shoreline were compiled by office interpretation of photographs and the stereoscope was used extensively. A sufficient number of detail points were located to facilitate progress and accuracy of the work in detailing.

29. Supplemental Data

(Hydrographic sheets H-6990, H-6991, H-7088, and graphic compilation sheet T-7004a were used and topographic quadrangles of Attu Island #13 and #14 prepared under the direction of the Chief of Engineers, U. S. Army, 1943 (1:20,000). The latter was used mainly for bluff lines, reef lines and shorelines that were obscured by shadows cast by high relief on the photographs.)

The area about Hodikof Reef was projected onto the compilation sheet from photograph V-10-5 (1:26,000).

30. Mean High Water Line.

The mean high water line was interpreted stereoscopically in the office by the compiler.

31. Low Water and Shoal Lines.

The dashed lines in the water indicate four areas.

32. Details Offshore from the High Water Line.

The offshore details as shown on the hydrographic sheets were transferred to the compilation.

44. Comparison with Existing Topographic Quadrangles.

A visual comparison of the compilation sheet was made with Attu Island #13 and #14 quadrangles prepared under the direction of the Chief of Engineers, U. S. Army, 1943 (1:20,000). It was noted there was generally good agreement between the compilation and each of the two quadrangles.

45. Comparison with Nautical Charts.

There is good agreement between the compilation and nautical chart #9128 (1:20,000).

Radial plot and detailing by:

B. J. Colner
B. J. Colner
January 1947

APPROVED:

L. C. Lande
L. C. Lande
Chief, Graphic
Compilation Section

MAP T-8478..... PROJECT NO. 218..... 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		DATUM CORRECTION	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)	
PAW, 1944 (n.d.)		N.A. 1927	52 05 11 43.731 "				1351.81	502.93	
			173 17 13.524				253.02	869.48	
NIX, 1944 (n.d.)		"	52 52 55.079				1702.60	152.14	
			173 16 55.908				1045.54	76.46	
KOF, 1944 (n.d.)		"	52 52 39.691				1226.93	627.81	
			173 17 43.676				816.83	305.27	
TOP, 1944 (n.d.)		"	52 53 18.237				501.92	1352.83	
			173 18 30.311				566.76	555.14	
N.W. cor. of shack nr. lookout, 1944 (nd)		"	52 52 00.87				26.89	1827.85	
			173 16 00.84				15.71	1106.69	
BACK (USN), 1943, r. 1944 d.		"	52 50 51.21				1583.00	271.73	
			173 19 55.71				1042.6	80.4	
PEAK 7 (USN), 1943; r. 1944 d.		"	52 50 20.66				638.64	1216.09	
			173 20 16.83				315.0	808.2	
RIDGE (USN), 1943; r. 1944 d.		"	52 50 39.36				1216.70	638.03	
			173 25 01.91				35.7	1087.4	
FOX (USN), 1943, r. 1944 d.		"	52 50 33.346				1030.79	823.94	
			173 19 13.037				244.0	879.0	
COLD (USN), 1943, r. 1944 d.		"	52 50 50.894				1573.24	281.49	
			173 16 35.204				658.9	464.0	
CREE (USN), 1943; r. 1944 d.		"	52 50 33.080				1022.57	831.67	
			173 18 38.208				677.8	445.2	
HILL (USN), 1943; r. 1944 d.		"	52 51 07.28				225.04	1629.17	
			173 25 50.22				939.8	183.1	

1 FT. = 3048008 METERS
 COMPUTED BY: C. Leitch
 CHECKED BY: B.J. Colner
 DATE: Dec. 1946
 DATE: Dec. 1946
 M-2388-12

MAP T. 8478 PROJECT NO. 218 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		DATUM CORRECTION	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)		FORWARD	(BACK)	
RANA, 1944		N.A. 1927	52 51 45.704	173 18 56.909				1412.80	441.94	
HODIKOF, 1944		"	52 52 38.175	173 17 45.825				1064.71	57.79	
JIM, 1944 (n.d.)		"	52 51 36.73	173 22 15.41				1180.07	674.67	
ART, 1944		"	52 51 22.84	173 23 11.75				857.06	265.04	
HUT, 1944 (n.d.)		"	52 53 32.365	173 17 48.493				1135.40	719.34	
MAN, 1944 (n.d.)		"	52 51 48.246	173 18 57.815				288.32	834.28	
JOY, 1944 (n.d.)		"	52 51 46.55	173 18 19.12				706.03	1148.71	
KIT, 1944 (n.d.)		"	52 51 49.14	173 20 14.83				219.85	902.85	
JUG, 1944 (n.d.)		"	52 51 40.586	173 21 15.723				1000.47	854.28	
GOB, 1944 (n.d.)		"	52 51 04.74	173 24 16.44				906.63	215.17	
LUG, 1944 (n.d.)		"	52 51 17.401	173 25 59.551				1491.38	363.36	
EMILY, 1944		"	52 49 55.138	173 17 11.305				1081.60	40.90	

1 FT. = 3048008 METERS
 COMPUTED BY: C. Leich
 CHECKED BY: B. J. Colner
 DATE: Dec. 1946
 DATE: Dec. 1946
 M-2588-12

MAP T-8478 PROJECT NO. 218 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		DATUM CORRECTION	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)	FORWARD	(BACK)
DOME (USN) 1943, r. 144		N.A. 1927	52 048	131.973				988.35	866.37		
			173 18	50.149				939.39	184.51		
AL (USN) 1943 r. 144		"	52 48	50.523				1563.77	292.95		
			173 16	37.498				702.34	421.46		
LEX (USN) 1943, 44		"	52 49	03.81				117.77	1736.96		
			173 17	56.11				1050.88	72.82		
SPRAY, 1944		"	52 49	56.202				1737.32	117.41		
			173 21	54.170				1014.17	109.13		
DOT (WW) (USN) 1943 (n.d.)		"	52 50	13.64				421.64	1433.09		
			173 22	49.40				924.77	198.43		
RICKO, 1944		"	52 50	95.562				171.93	1682.80		
			173 52	12.468				233.41	889.89		
RIK (USN) 1943		"	52 49	55.138				1704.43	150.30		
			173 26	22.314				417.79	705.51		
HUTCH, 1944		"	52 51	07.274				224.85	1629.89		
			173 25	50.265				940.61	182.19		
BLACK, 1944 (n.d.)		"	52 51	34.646				1070.98	783.76		
			173 26	17.577				328.87	793.73		
OFF, 1944 (n.d.)		"	52 49	19.22				594.13	1260.60		
			173 29	31.58				591.40	532.20		
SW. cor. of Shack nr. A sta. Hutch, 1944		"	52 51	07.15				221.02	1633.72		
			173 25	50.04				936.40	186.40		
SARA, 1944		"	52 51	46.932				1450.76	403.98		
			173 20	21.483				401.93	720.57		

1 FT. = 3048008 METER
 COMPUTED BY: C. Leitch
 CHECKED BY: B.J. Colner
 DATE: Dec. 1946
 DATE: Dec. 1946
 M-2388-12

Office Inspection of T-8478

6-23-47

T-8478 has been compared with existing topographic maps, and with the contemporary hydrographic and topographic surveys during compilation.

The manuscript is complete and adequate and will be reproduced and registered in the vault without the usual Washington Office review by the review section.

Inspected by:

B. G. Jones

B. G. Jones
6-20-47

APPROVED BY:

Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

Chief, Div. of Coastal Surveys