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Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE DESCRIPTIVE REPORT	
Type of Survey	Photogrammetric Shore line Survey
Field No.	Office No. T-8477
LOCALITY	
State	Alaska
General locality	Attu Island
Locality	Sarana Bay
<u>1946</u> CHIEF OF PARTY L. C. Wilder K. T. Adams	
LIBRARY & ARCHIVES	
DATE	July 7, 1947

B-1870-1 (1)

11

Applied to Chart 912? Reconstruction ~~to~~ ~~draw~~ 7/20/49
5-27-63 det 8865 Embryonje Exam after V (normal) No corr

DATA RECORD

T-8477

~~Quadrangle (II):~~~~Project No. (II):~~~~Field Office:~~

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

Compilation Office:
Washington, D. C.Chief of Party: Capt. 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. R- (VI)

Completed survey received in office:

Reported to Nautical Chart Section:

Reviewed:

Applied to chart No.

Date:

Redrafting Completed:

Registered:

Published:

Compilation Scale: 1:10,000

Published Scale: Not to be published.

Scale Factor (III): 1.00

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

Datum Plane (III):

Reference Station (III): Sarana No. Base 1944

Lat.: $52^{\circ}52'41.293$ 1276.45M. Long.: $173^{\circ}15'55.829$ 1044.17M. 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>
104-116 83- 86	9-27-44 "	Unknown "	1:10,000 "	Unknown "
V10-5	9-2-43	"	1:26,000	"

~~Not used in radial plot but
used in detailing area around
52°52'50"N, 173°17'E.~~

Tide from (III): H-6990

Mean Range: 36' Spring Range:

Camera: (Kind or source) Single lens photographs obtained from the War Department.

Field Inspection by: ~~See Description Sheet~~ *F.C. Wilder chief of Party.* date: ?

Field Edit by: None date:

Date of Mean High-Water Line Location (III): Date of the photographs, 1944.

Projection and Grids ruled by (III) T.L. Johnson date: 8-28-46

" " " checked by: " " date: "

Control plotted by: S. G. Blankenbaker date: 8-29-46

Control checked by: C. Leich date: 9- 3-46

Radial Plot by: B. J. Colner date: 12-3-46

Detailed by: B. J. Colner date: 12-16-46

Reviewed in compilation office by: L. C. Lande date:

Elevations on Field Edit Sheet checked by: date:

Descriptive Report
Shoreline Survey T-8477

Field Inspection

Identification of control stations and limited inspection of shoreline details were accomplished in 1944 and 1945 when locating control stations for the hydrography (H-6990).

Except for T-7005-A which covers only a small area north of Latitude $52^{\circ} 54.8'$, no graphic control surveys have been submitted for the area covered by the western part of H-6990 and this manuscript (T-8477). Apparently the stations shown on H-6990 with red circles were located by triangulation.

General

This shoreline survey has been prepared from photographs and field inspection notes to locate mean high water line and alongshore details not located by the hydrography.

ATTU ISLAND (SARANA BAY)

Compilation Sheet T-8477

26. Control.

The following 12 U. S. Coast and Geodetic Survey triangulation stations were held to during the radial plot:

Alto, 1944; Ezra, 1944; Nix, 1944; Sarana North Base, 1944; N. W. corner of shack near lookout, 1944; N. W. corner of shack near waterfall, 1944; Own, 1944; Paw, 1944 (1 ray); Rip, 1944; Rum, 1944; Sarana South Base, 1944; Sparks, 1944.

Triangulation station Hut, 1944 falls 3 mm. S.W. of the intersection made by the radial plot. The point was probably misidentified on the photograph in the field.

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

His and Joe.

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

The control was sufficient to establish a fairly strong plot.

27. Radial Plot.

A radial line plot was laid in which 16 celluloid templets were used. The control was satisfactorily spaced and adequate. The radial intersections of all pass points were good. The topographic stations are shown on the sheet with red circles. The pass points are shown on the sheet with large blue circles except where there are points with only two intersecting cuts; these points are denoted by large green circles. Detail points are shown by small blue circles.

28. Detailing.

For purposes of detailing the photographs may be considered good. The photographs were practically the same scale as that of the compilation (1:10,000).

These photographs comprised the following flights:

83 - 86
104 - 116

The bluff 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.

See T-8478 for detail in the vicinity of $52^{\circ}52'50''N$ and $173^{\circ}17'E$, Hodikof Reef.

29. Supplemental Data.

Shoreline details of the north edge of the manuscript (north of triangulation station Sparks 1944) were taken from planetable survey T-7005-A (1:2,500) 1945, and are shown on the manuscript in red.

Alongshore rocks located on H-6990 were transferred to the manuscript prior to detailing the additional rocks awash and ledge from the photographs. All details copied from H-6990 are shown on the manuscript in red.

Comparison with H-6990.

Alongshore details on T-8477 are in agreement with H-6990.

The mean high water line on T-8477 supersedes that on H-6990.

30. Mean High Water Line.

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

44. Comparison with Existing Topographic Quadrangles.

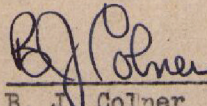
A visual comparison on the compilation sheet was made with the Attu Island #7 and #13 quadrangles prepared

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.

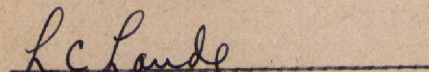
~~Nautical Chart #9127 disagrees with Nautical Chart #9126 as to the position of Hodikof Point, and the information of the later chart was used. There are no marked disagreements between the charts and compilation.~~ ^{with} *No. 9127 (1:10,000 scale)*

Radial plot and detailing by:



B. J. Colner
December 1946

APPROVED:



L. C. Lande, Chief
Graphic Compilation Section


Inspection of T-8477

6-20-47

T-8477 has been verified and has been compared with contemporary hydrographic survey by the graphic compilation section.

No further examination by the Review Section is required. Therefore, the manuscript will be printed and registered without the usual review.

Inspected by:



B. G. Jones
6-20-47

APPROVED BY:

Chief, Div. of Photogrammetry

Chief, Nautical Chart Br.
Division of Charts

Chief, Div. of Coastal Surveys