

8474

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Form 504 U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE  <b>DESCRIPTIVE REPORT</b>	
Type of Survey	<b>Air Photographic</b> <i>(Shoreline Survey)</i>
Field No.	Office No. <b>T-8474</b>
<b>LOCALITY</b>	
State	<b>Alaska</b>
General locality	<b>Attu Island</b>
Locality	<b>Massacre Bay</b>
<hr/> 194 5	
<b>CHIEF OF PARTY</b>	
<b>R. W. Knox</b> <i>Chief of Branch</i>	
<b>LIBRARY &amp; ARCHIVES</b>	
DATE <i>May 29, 1945</i>	

## DATA RECORD

T- 3474

Quadrangle (II):

Project No. (II):

Field Office: Alaska Vessels

Chief of Party:

Compilation Office: Washington

Chief of ~~Party~~ <sup>Branch</sup> R. W. Knox

Instructions dated (II III); No formal  
instructions. See letter attached  
to this report

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:

Not to be  
published

Compilation Scale: 1:10,000

Published Scale:

Scale Factor (III): 1.0

Geographic Datum (III): 1934 Navy Datum

Datum Plane (III): Sea Level

Reference Station (III): Dome, U.S.N., 1943

Lat.: 52°48' 1476.7 m. Long.: 173°18' 1024.0 m. <sup>Adjusted</sup>  
<sub>Unadjusted</sub>

State Plane Coordinates (VI): none

X =

Y =

Military Grid Zone (VI) none

PHOTOGRAPHS (III)

<u>Number</u>	<u>Date</u>	<u>Time</u>	<u>Scale</u>	<u>Stage of Tide</u>
475, 177, 179, 180	9-27-44	Not known	1:10,000	Not Known
157-159, 13-20	"	"	"	"
25-35, 41-48, 51-52	"	"	"	"
3626-V62 to V76	8-19-44	(V74 missing)	1:5,000	"
3119-IV49 to IV73	7-17-44	(IV64, 65, 67, 71 missing)	"	"
2901-2V44 to 2V53	6-14-44		1:5,000	"
3199-IV26 to IV40	7-17-44	(IV39 missing)	"	"

These are Navy photographs

*2' 2" scale from 1944  
all other 1:5,000 scale  
also include Alaska and Bay*

Tide from (III):

Mean Range: 3.5 feet

Spring Range: Not known

Camera: (Kind or source) Navy photographs - single lens

Field Inspection by: Alaska Vessels

date: 1944

Field Edit by: None

date:

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

Date of photographs

Projection ~~and Control~~ checked by (III) Washington Off date: 4-2-45

" " " checked by: " " date: 4-2-45

Control plotted by: K. N. Maki date: 4-10-45

Control checked by: L. C. Lande date: 4-11-45

Radial Plot by: K. N. Maki date: 4-17-45

Detailed by: K. N. Maki date: 5-22-45

Reviewed in compilation office by: L. C. Lande date: 5-28-45

Elevations on Field Edit Sheet checked by: None

date:

## PRELIMINARY STATEMENT

The 1944 field surveys of the eastern end of Attu Island accomplished the following:

1. Planetable graphic control for hydrographic signals
2. Identified horizontal control on photographs
3. Limited field inspection of the shoreline

Generally, the graphic control surveys located only small sections of shoreline. In most of the area shoreline was added to the graphic control sheets in this office from the photographs; however, the attached letter of March 24, 1945 from the Seattle processing office indicated errors on planetable sheet, T-6960.

Because of the existing errors in T-6960, this survey, No. T-8474, of this area was compiled in this office.

Post Office Address: Seattle Processing Office, 1500 Westlake Ave. N., Seattle 9, Wn.

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DEPARTMENT OF COMMERCE

U. S. Coast & Geodetic Survey

24 March 1945

To: The Director,  
U. S. Coast and Geodetic Survey

From: Officer in Charge,  
Seattle Processing Office

Subject: Graphic control survey - Attu Island.

Reference: Letter to the Supervisor, Northwestern District,  
(836-RGR) dated 19 March 1945.

No graphic control sheet covering the area mentioned in the reference letter was executed by any of the parties working in Alaska. Many triangulation stations, however, of 2nd, 3d, and 4th order were located. A tracing is enclosed showing the locations of most of these stations. The shoreline on this tracing was taken by the field party from the photographs of the area.

Topographic sheet T-6960 should not be used for control of the aerial photographs. The locations of some triangulation stations on this sheet were found to have been plotted in error, and the locations of many of the hydrographic signals on the sheet were considerably in error.

The recorded cuts used by the field party in plotting T-6960 were carefully replotted on H-6939 and H-6940. The intersections of cuts to and three point locations of signals checked remarkably well. The signals shown on these sheets were located well within the allowable error for topographic work as stated on page 89, reference 232, of the Hydrographic Manual.

It is recommended that the locations of signals as shown on H-6939 and H-6940 be used to control the aerial photographs. The shore line between signals shown on these sheets was transferred from T-6960 as modified in some cases by information contained in the hydrographic records.

The triangulation shown on the enclosed tracing and the locations of signals and shore line shown on H-6939 and H-6940 furnish the best source of control for the area mentioned in the reference letter.

/s/ F. H. Hardy  
Officer in Charge  
Seattle Processing Office

cc: Supervisor, Northwestern District

Attu Island  
MASSACRE BAY

Compilation Report

T-8474

26. Control: Triangulation stations used:

Little (USN)	1943	Gree (USN)	1943
Dock	"	Lex	"
Tank	"	Dome	"
Mass	"		

Hydrographic stations used:

Ute	Vee	Nix
Tar	Big	Par
Son	Mar	Top
Cas	Mat	Sharp
Pon	Fall	

The hydrographic station positions were scaled from the 1:20,000 hydrographic sheet H-6939. These positions were corrected for scale and plotted on the 1:10,000 acetate manuscript.

Triangulation stations were plotted from positions adjusted to the 1934 Navy datum.

27. RADIAL PLOT: A radial line plot was made with single lens photographs printed on double weight paper. The plot was laid down with templets made on transparent celluloid.

Control in the area is adequate but all of it could not be utilized in the plot due to lack of identification on the photographs. In some instances control fell near azimuth lines creating some difficulty in fixing the templets. However, the plot went down very well and all ray intersections were sharp and well defined.

28. DETAILING: Field inspection had been made on the 1:26,000 photographs. Due to the small scale and somewhat poor quality of the photographs, only the general conformation of shoreline, ledges, rocks, etc., was apparent. These were checked and outlined in detail on the 1:10,000 photographs with the aid of

a stereoscope. The photographs used in detailing were satisfactory.

Roads following along the immediate shoreline and for some distance inland are shown.

29. SUPPLEMENTAL DATA: Topographic sheet T-6960 was available, but due to known discrepancies in the plotted positions of control stations its use as a reference was limited only to visual inspection.

Note: Additional field inspection was available on Alexai Point on 1:5,000 photographs. A large percentage of the sheet has 1:5,000 photographic coverage which was an additional aid in interpretation of the shoreline, etc.

33. WHARVES AND SHORELINE STRUCTURES: All wharves, piers, piling, etc., visible on the photographs are shown. No shoreline structures such as buildings are shown unless they extend into the water beyond the shoreline.

34. LANDMARKS AND AIDS TO NAVIGATION: Four radio towers and a tank were out in on Murder Point.

35. HYDROGRAPHIC CONTROL: No additional hydrographic stations were located other than these that were already previously established and used to control the radial plot.

36. LANDING FIELDS AND AERONAUTICAL AIDS: Two landing fields were shown. The one on Alexai Point was detailed completely. The other, at the head of Casco Cove, was detailed only to the extent that photographic coverage was available.

44. COMPARISON WITH EXISTING TOPOGRAPHIC QUADRANGLES: T-8474 was compared with the U. S. E. quadrangle sheets No. 12 and No. 13 of Attu Island, 1:20,000, dated 1943. Shoreline is very similar except in areas having man-made improvements, such as in the vicinity of docking areas. Interpretation of ledge formations differs somewhat. Outlying rocks, shoals, buildings, and roads are not shown on the U. S. E. quadrangle map.

T-8474 agrees with planetable sheet T-6969-B, 1944. Comparison is limited to the shoreline on the western shore of the narrow neck of Alexai Point. Scale of planetable sheet is 1:5,000.

45. COMPARISON WITH NAUTICAL CHARTS: T-8474 was compared with hydrographic sheet H-6940, 1:10,000, dated 1943. General comparison is favorable in so far that the shoreline does not conflict with any of the soundings. There is considerable difference in certain areas on the outline and extent of ledge formations as, for example, the western tip of Alexai Point. Shoreline could not be compared as it was taken from T-6960. Comparison was limited to ledges, rocks, piers, and other offshore features. Additional piers have been constructed on the western shore of Massacre Bay.



Nautical Chart No. 9128 at 1:20,000, dated January, 1943 covers the area. Shoreline, ledges, and rocks are not in entire agreement as is evident on Alexai Point.

Respectfully submitted

May 10, 1945

  
K. N. Maki

Inspected by:

Chief, Nautical Chart Branch

Chief, Section of Topography

Chief, Division of Charts

Chief, Division of Coastal  
Surveys



# NAUTICAL CHARTS BRANCH

SURVEY NO. T 8474

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-20-45	9198	J.M.A.	Ver. after review @ 7/2/45 Before <del>After</del> Verification and Review
7-3-45	9129	J.T.W.	stet <del>Before</del> After Verification and Review
9/26/45	9128	JTW	Before <del>After</del> Verification and Review Ozalid applied
5/9/50	9127	<del>Ed Martin</del>	Before After Verification and Review Ozalid applied. OK after new work - JTW 9/1/50
8/15/57	9128	N.W. Burgoyne	Partially Applied - <del>Before</del> After Verification and Review
4-30-54	Reconst. 9129	Anne Arps	Before After Verification and Review
6/4/59	Reconst 9128	JTW	<del>Before</del> After Verification and Review Superseded by Anadu
5/27/63	8865	Burgoyne	<del>Before</del> After Verification and Review EXAM No cost
9-3-92	16432	Ed Martin	<del>Before</del> After Verification and Review new Chart
			Before After Verification and Review

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.