6933

Diag'd on diag. No. 9302 88632

Form 564
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey  Topographic
Field No. "L" & "N" Office No. T-6933 a & b

LOCALITY
State  Alaska-Alutian Islands
General locality  Adek Island, Tanaga I.
Locality  Finger Bay, Hot Springs Bay

1943
CHIEF OF PARTY
G. C. Mattison

LIBRARY & ARCHIVES
DATE  February 8, 1944
The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. "L"

REGISTER NO. 6937

State ____________________________
Aleutian Islands

General locality ____________________
Androonof-Islands

Locality __________________________
Adak Island, Finger Bay

Scale 1:50,000 Date of survey June, 1943

Vessel ____________________________
U.S.C. & G.S.S. EXPLORER

Chief of party ______________________
G. C. Mattison

Surveyed by ________________________
G. R. Shelton

Inked by __________________________
G. R. Shelton

Heights in feet above ____________ to ground to tops of trees

Contour, Approximate contour, Form line interval ______ feet

Instructions dated ____________________________, 19____

Remarks: __________________________________________

________________________________________
DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET "L"
PROJECT CS - 218
CONFIDENTIAL

AUTHORITY:

The work on this sheet was done at the request of the Navy Department.

LIMITS & SCALE:

This survey covers the outer part of Finger Bay and the south arm of the bay, extending from a junction with topographic sheet "A" on the north to a junction with topographic sheet "M" at triangulation station "HEEL 1943", and from topographic station "Hut" on the west to triangulation station "HALF 1943" and beyond to T-6949 (1943).

The scale of the survey is 1:5,000.

PURPOSE:

This survey was made to establish control for a hydrographic survey and locate the shoreline of the area.

CONTROL:

The control for this survey consists of triangulation established by the EXPLORER, on U.S. Navy datum. Unalaska Datum added in Washington.

MAGNETIC OBSERVATIONS:

The following declinatioire observations were made:

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<tr>
<th>STATION</th>
<th>DATE</th>
<th>TIME (160 mer.W.)</th>
<th>DECL. VALUE</th>
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<tr>
<td>HEEL (1943)</td>
<td>6/3/43</td>
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<td>90° 45' E.</td>
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<td>HALF (1943)</td>
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<td>10° 25' E.</td>
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<td>OAK (Topo.)</td>
<td>6/8/43</td>
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<td>12° 50' E.</td>
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<td>WOP (Topo.)</td>
<td>6/9/43</td>
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<td>13° 30' E.</td>
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<td>DOG (Topo.)</td>
<td>6/12/43</td>
<td>1520</td>
<td>10° 50' E.</td>
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SURVEY METHODS:

Standard planstable methods were followed. The triangulation stations were occupied and cuts were taken to topographic signals. Plane table triangulation was carried to the head of the south arm. The following topographic stations were marked with standard disks: "Tel", "Cat", and "Yet".

CHARACTER OF COUNTRY:

Except for the extreme head of the south arm, the shoreline is generally rocky with low bluffs extending to the water line. The head of the bay is a narrow sand beach.

COMPARISONS WITH EXISTING SURVEYS:

The only available survey covering this area is H.O. Chart No. 5631. No detailed comparison was made.

GEOGRAPHIC NAMES:

The name Finger Bay was taken from H.O. Chart No. 5631, and is in use by the military authorities.

STATUTE MILES OF SHORELINE: 6.0

Respectfully Submitted,

George R. Shelton,
Lieut. Comdr., C. & G. S.

APPROVED & FORWARDED:

G. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.
<table>
<thead>
<tr>
<th>Name on Survey</th>
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Names underlined in red approved by L. Heek on 4/12/44.
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT } No. H
PHOTOSTAT OF } No. T T6933 a-b

received February 2, 1944
registered February 8, 1944
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

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RETURN TO

82 Comdr. R. W. Knox
DIVISION OF CHARTS
REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY
REGISTRY NO. 6933a
Field No. L

ALEUTIAN ISLANDS; Adak Island; Finger Bay
Surveyed June 1943; Scale 1:5,000
Project C. S. 218

Plane Table Survey
Aluminum Mounted

Chief of Party - G. C. Mattison
Surveyed and inked by - G. R. Shelton
Reviewed by - J. A. McCormick, April 18, 1944
Inspected by - H. R. Edmonston

1. Adjoining Surveys

Satisfactory junctions were effected with T-6930a (1943) on the northwest, T-6936 (1943) on the west and with T-6949 (1943) on the east. Inked cuts to a rock awash and a spar buoy intersect in the vicinity of Lat. 51°51.5', Long. 176°34.6', outside the limits of the aluminum sheet. Cuts to the rock awash give a perfect intersection on H-6924 (1943). Those to the spar buoy do not intersect properly and should be disregarded. Although a spar buoy was later established in this vicinity by the Navy, the cuts evidently were to a temporary marker used by the hydrographic party. The charted position of the spar is as reported in H. O. Restricted N. to M. 15 of 1943.

2. Previous Surveys

Navy surveys available for comparison are T-6941 and T-6889 of 1933. H-6889 (scale 1:15,000) shows some detail outside high water line; T-6941 (scale 1:40,000) shows none. Neither is of an accuracy approaching that of the present 1:5,000 scale survey and both can be disregarded in the common area.

3. Comparison with Chart 9119 (Print of Dec. 10, 1943)

Topography charted in this area is from B.P. 37293, a preliminary field compilation of the 1943 hydrography and topography. The necessary revisions are of minor extent. See paragraph 1 as regards establishment of spar buoy at the entrance to the bay.
4. **Compliance with Project Instructions**  
Satisfactory.

5. **Additional Field Work Recommended**  
None.

Examined and approved;

[Signature]
Chief, Surveys Branch

[Signature]
Chief, Division of Charts

[Signature]
Chief, Section of Hydrography

[Signature]
Chief, Division of Coastal Surveys
Applied to chart 9119. July 8, 1944  8 A.M.

Applied to chart 8865 Oct. 27, 1944 no correction  F.M.A.
DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No...N..................

REGISTER NO.

State..................Aleutian Islands...........................................

General locality........Andersen Island.........................................

Locality........Tanaga Island, Hot Springs Bay..............................

Scale......1:5000........Date of survey........July............1943.

Vessel...............U.S.C.& G.S.S. EXPLORER..............................

Chief of party.........G.C. Mattison...........................................

Surveyed by............L.G. Taylor.............................................

Inked by................L.G. Taylor............................................

Heights in feet above........to ground  to tops of trees

Contour, Approximate contour, Form line interval.........feet

Instructions dated..................19.............

Remarks:........................................................................

........................................................................
DESCRIPTIVE REPORT
TO ACCOMPANY TOPOGRAPHIC SHEET N
PROJECT CS-218
CONFIDENTIAL

AUTHORITY:
The work on this sheet was done at the request of the Navy Department.

LIMITS AND SCALE:
The area was surveyed on a scale of 1:5000.
The survey includes Hot Springs Bay and extends from Trunk Point on the south to triangulation station "FAY" (USN), 1943, on the north.

PURPOSE:
The purpose of the survey was to establish sufficient control for a hydrographic survey and establish the high and low water lines for U.S. Navy charts.

CONTROL:
The control consists of triangulation stations established by the U.S. Navy (U.S.S. HYDROGRAPHER). The triangulation stations were considered numerous enough to make unnecessary any recoverable topographic stations. The geographic positions of the triangulation stations had not been determined at the time of the survey; therefore, no projection is shown on the sheet. Distances between triangulation stations were computed from the base at the head of the bay between triangulation station "TANAGA EAST BASE" (USN), 1943, and "TANAGA WEST BASE" (USN), 1943, the latter station falling off the sheet. Triangulation stations were plotted by distance arcs as computed from this base.

MAGNETIC OBSERVATIONS:
The opportunity did not present itself for the necessary observations to determine the declinatoire error during the field season. The following observations were made. The declinatoire values were scaled from a sun azimuth taken by the U.S. Navy at Station "ROX" (USN), 1943. Rescaled in Washington after projection had been added.
STATION    DATE      TIME    DECL. VALUE
           (150th Mer. W.)
"BAY" (USN), 1943  7-10-43    1655  6°34' E.  7°12'  Chart shows
"HOT" (USN), 1943  7-10-43    1400  6°19' E.  7°08'
"ROX" (USN), 1943  7- 8-43    1500  7°49' E.  8°10'  8°44' E
"Gun" (Topo. Sta.)  7- 4-43    1410  8°49' E.  9°12'

SURVEY METHODS:
Standard planable practices were followed throughout.
The triangulation stations were occupied first and cuts taken to
topographic signals. Additional planable setups were obtained
by the resection method for additional cuts to signals and the
location of the shoreline. No traversing was necessary.

CHARACTER OF THE COUNTRY:
The shoreline for the most part is made up of boulders
and ledges of a volcanic origin. The ledges on the southern side
of the bay appears to be an old lava flow extending into the bay.
The western end of the bay has a fine sand beach and the adjacent
ground is a low valley extending several miles inland and is
covered with grass and moss.

DESCRIPTION OF FEATURES:
The base of a prominent waterfall, approximately fifty
feet high, is located at topographic station "Fall". Two small
waterfalls are shown on the sheet on the northern shore. These
are both quite small and it is questionable that the streams flow
the year around.

The area immediately east of signal "Gus" has several
small hot springs with steam and water issuing from them. The
water area from signal "Gus" to "Kit" ("Kit") has large quantities
of gas bubbles escaping which are noticeable on calm days.

Two small trappers' cabins are located at the head of
the bay. These have been supplied with emergency rations by the
government.

A tide gage is located on the sheet near signal "Egg".

COMPARISON WITH EXISTING SURVEYS:
The only available surveys covering this area were on
H.O. View Chart No. 7 and H.O. Misc. No. 10,241, which were not
compiled with sufficient accuracy for making any comparison.
GEOGRAPHIC NAMES:

The name Hot Springs Bay was taken from H.O. Misc. No. 10,241 and is in local use by the military authorities.

The name Trunk Point was taken from H.O. Misc. No. 10,241 which also shows a secondary name "Prune Point" in parenthesis. No additional information could be obtained about this name. The Navy evidently prefers Trunk Point since the triangulation station on the point was named "TRUNK".

STATISTICS:

Statute miles of shoreline . . . . . . . 5.1
Area in square statute miles . . . . . . . 2.0

Respectfully submitted,

Lorne G. Taylor,
Lieut. (j.g.) U.S.C. & G.S.

Approved and forwarded:

G.W. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER
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Names underlined in red approved
by [signature] on 4/22/44
DIVISION OF CHARTS
REVIEW SECTION - SURVEYS BRANCH

REVIEW OF TOPOGRAPHIC SURVEY
REGISTRY NO. 6933b
Field No. N

Aleutian Islands; Tanaga Island; Hot Springs Bay
Surveyed July 1943, Scale 1:5,000
Project C. S. 218

Plane Table Survey  Aluminum Mounted

Chief of Party - G. C. Mattison
Surveyed and inked by - L. G. Taylor
Reviewed by - J. A. McCormick, April 18, 1944
Inspected by - H. R. Edmonston

1. Adjoining Surveys

No other topographic surveys were made in the vicinity in 1943.

2. Previous Surveys

Only previous survey available in the area is a Navy reconnaissance, H-6908, made in 1942 on a scale of 1:20,000. H-6908 shows a generalized high water line which cannot approach the detail of the present survey. It also shows an extensive reef in Lat. 51°46.9', Long. 177°47.9' where the latter shows a rock bare one foot at MHW and a shoal outline bare 2 feet at MLLW. However, the delineation on the present survey is supplemented considerably by additional determinations of the reef limits on contemporary hydrographic survey H-6879 (1943). H-6908 can be disregarded in the common area.

3. Comparison with Chart 10241 (Print of December 1943)

This H. O. Miscellaneous is the largest scale chart available for comparison at this writing. Shoreline of Hot Springs Bay is charted about as shown on Navy survey H-6908, discussed in the preceding paragraph.

4. Compliance with Project Instructions

Satisfactory.
5. **Additional Field Work Recommended**

None.

Examined and approved:

[Signatures]

Chief, Surveys Branch

Chief, Division of Charts

Chief, Section of Hydrography

Chief, Division of Coastal Surveys
Applied to drawing of chart 9121 (1:10000) Feb 21, 1944 - J. Walker

8863 Oct 25, " A.M. Albert