

6933
a & b

Diag'd on Diag. No. ~~9102~~ 8863Z

Form 504

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-Aleutian Islands

General locality (a) Adak Island, (b) Tanaga I.

Locality Finger Bay, Hot Springs Bay

194 3

CHIEF OF PARTY

G. C. Mattison

LIBRARY & ARCHIVES

DATE February 8, 1944

6933
a & b

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. **T6933a**

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. "L"

REGISTER NO.

6933⁹

State Aleutian Islands

General locality Andreanof Islands

Locality Adak Island, Finger Bay

Scale 1:5,000 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

- o -

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" ^{T-6930a (1943)} on the north to a junction with topographic sheet "M" ^{T-6938 (1943)} at triangulation station "HEEL 1943", and from topographic station "Nut" ^(on T-6936) on the west to triangulation station "HALF 1943" ~~and~~ 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 declinoire observations were made:

<u>STATION</u>	<u>DATE</u>	<u>TIME</u> (150 mer.W.)	<u>DECL. VALUE</u>	
HEEL (1943)	6/8/43	0945	09° 48' 05" E.	
HALF (1943)	6/12/43	1130	10° 25' 37" E.	9° 15' E charted
OAK (Topo.)	6/8/43	1520	12° 50' E.] ?
WOP (Topo.)	6/9/43	1620	13° 30' E.	
DOG (Topo.)	6/12/43	1520	10° 40' 50" E.	

SURVEY METHODS:

Standard planetable 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:


S. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER.

Remarks

Decisions

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GEOGRAPHIC NAMES
Survey No. **T6933a**

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Aleutain Islands</u>										1
<u>Andreanof Islands</u>										2
<u>Finger Bay</u>										3
<u>Adak Island</u>										4
<u>Lucky Point</u>										5
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Names underlined in red approved
by L. Heck on 4/22/44

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

No. T

T6933 *a-b*

received
registered
verified
reviewed
approved

February 2, 1944

February 8, 1944

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
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✓ Recd

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. $51^{\circ}51.5'$, Long. $176^{\circ}34.6'$, 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

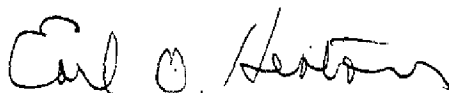
None.

Examined and approved;



Chief, Surveys Branch

Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of
Coastal Surveys

Applied to chart 9119. July 8, 1944 L.A.M.

Applied to chart 8863 Oct. 27, 1944 no correction F.M.A.

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

TOPOGRAPHIC TITLE SHEET

16933b

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 Andreanof Islands

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 "BAY" (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. ✓

*Projection inked
on sheet in
Washington Office
RHC*

MAGNETIC OBSERVATIONS:

The opportunity did not present itself for the necessary observations to determine the declinoire error during the field season. The following observations were made. The declinoire 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.
JAM*

STATION	DATE	TIME (150th Mer.W.)	DECL. VALUE	
"BAY" (USN), 1943	7-10-43	1655	6°34' E. 7°12'	Chart shows 8°44' E
"HOT" (USN), 1943	7-10-43	1400	6°19' E. 7°08'	
"ROX" (USN), 1943	7- 8-43	1500	7°49' E. 8°10'	
"Gun" (Topo. Sta.)	7- 4-43	1410	8°49' E. 9°12'	

SURVEY METHODS:

Standard planetable practices were followed throughout. The triangulation stations were occupied first and cuts taken to topographic signals. Additional planetable 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 "Tie" ("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.

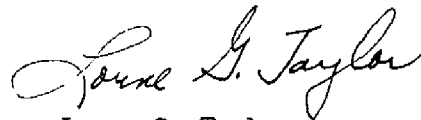
The name Trunk Point was taken from H.O. Misc. No. . ✓
10,241 which also shows a secondary name "Prune Point" in par-
enthesiis. No additional information could be obtained about this ✓
name. The Navy evidently prefers Trunk Point since the tri-
angulation station on the point was named "TRUNK".

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. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER

Remarks

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GEOGRAPHIC NAMES
Survey No: **T69336**

Name on Survey	A, On Chart No.	B, On previous survey No.	C, On U. S. quadrangle Maps	D, From local information	E, On local Maps	F, P. O. Guide or Map	G, Rand McNally Atlas	H, U. S. Light List	K	
<u>Aleutian Islands</u>										1
Andreanof Islands										2
<u>Tanaga Island</u>										3
<u>Hot Springs Bay</u>										4
<u>Trunk Point</u>										5
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Names underlined in red approved
by W. Hack on 6/22/44

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. $51^{\circ}46.9'$, Long. $177^{\circ}47.9'$ 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.

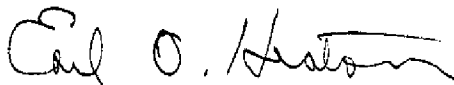
Examined and approved:



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. J. Walther
" " " 8863 Oct. 25, " G. M. Albert