

6923 ak&c

Diag. Chart No. 8862

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey TOPOGRAPHIC

Field No. "I", "J", "K" Office No. T-6923a,b,c

LOCALITY

State ALASKA (Aleutian Is.)

General locality Atka Island

Locality South Shore of Kazan Bay and Amlia

& Atka Shores of Amlia Pass

194 3

CHIEF OF PARTY

Elliott B. Roberts

LIBRARY & ARCHIVES

DATE February 8, 1944

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

TOPOGRAPHIC TITLE SHEET

REG. NO.

T6923a

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. I

REGISTER NO. T6923a

State ~~ALASKA~~ Aleutian Islands

General locality Atka Island
~~ALEUTIAN ISLANDS~~

Locality KONIUJI ISLAND, North Coast ATKA ISLAND

Scale 1:20,000 Date of survey July 22 & 25, 1943

Vessel MV E LESTER JONES

Chief of party ELLIOTT B ROBERTS

Surveyed by E. B. Brown

Inked by E. B. Brown

Heights in feet above High Water to ground to tops of trees

~~XXXX~~ Contour, Approximate contour, Form line interval 100 feet

Instructions dated 2/3/38, Sup. 3/1/38, 4/3/39/, 19

Remarks: 6/7/39, 5/8/40

DESCRIPTIVE REPORT TO ACCOMPANY TOPOGRAPHIC SHEET
FIELD NO. 1 - REGISTER NO. T-6923a

INSTRUCTIONS: Original----- Feb. 3, 1938
Supplemental--- Mar. 1, 1938, Apr. 3, 1939
June 7, 1939, May 8, 1940
Revised----- Apr 16, 1943, Apr 19, 1943

CONTROL: Koniuji, 1943, is a second order triangulation station. Gee, Vega, Die, Fit, and Lem were cut in by theodolite and computed positions were plotted on the sheet. Azimuth lines were drawn to triangulation stations on Atka Island for orientation. ✓

SURVEY METHODS: A Traverse was run between Gee and Lem around the western side of the island. The closing error was negligible. The traverse positions checked the triangulation positions of the intermediate stations. ✓ Signals on eastern side of island were located by plane table cuts, stadia distances and sextant cuts. The sextant cuts were plotted on the plane table sheet.

DESCRIPTION OF COAST: The eastern shore is in general, high rocky bluffs with several caves. It is practically impossible to land on this shore. There is a small section of sand beach with scattered boulders backed by an almost vertical bluff on the South point of the island. The west and north shores are in general large boulders. ✓ Landing is very difficult on these boulder beaches. Landings may be made on the pebble beach to the immediate Northward of signal Max, and on the rocky point near signal Rab. The island is in general covered with grass. The northern peak has a rounded top, the southern peak has a square top which resembles a chimney.

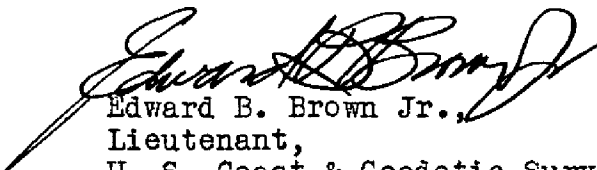
MAGNETIC MERIDIANS were drawn on the sheet with declinatoire No. 251. ~~Moderate~~ local attraction is indicated. ✓
Strong

Copy of report "Calibration of Declinatoires" is attached. ✓

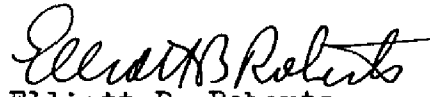
PREVIOUS SURVEYS: None.

SIGNALS OUTSIDE HIGHWATER LINE: Gee - 8 foot rock 8 m. ✓
long and 3 m. wide.

Respectfully submitted,


Edward B. Brown Jr.,
Lieutenant,
U. S. Coast & Geodetic Survey.

Forwarded: Approved:


Elliott B. Roberts,
Lieut. Comdr., Ch. of Party.
Comdr., M. V. "E. LESTER JONES".

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

T6923 b

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. "J"

REGISTER NO. T-6923b

State Alaska Aleutian Islands

General locality Atka Island and Amli Islands

Locality Amli Pass
A portion of South Shore of Nazan Bay

Scale 1 : 20,000 Date of survey September 7, 1943

Vessel M.V. E. LESTER JONES

Chief of party Elliott B. Roberts

Surveyed by Raymond M. Stone

Inked by Raymond M. Stone

Heights in feet above high water to ground ~~to tops of trees~~

Contour, Approximate contour, Form line interval feet

Instructions dated Feb. 3, 1938, 19

Supplemental Instructions: Mar. 1, 1938, Apr. 3, 1939

~~Remarks~~ June 7, 1939, May 8, 1940

Revised Instructions: Apr. 16, 1943, Apr. 19, 1943

DEPARTMENT OF COMMERCE
U.S. COAST AND GEODETIC SURVEY

REG. NO.

T6923c

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. "K"

REGISTER NO. T-6923c

State ~~Alaska~~ Aleutian Islands

General locality Atka and Amliia Islands

Locality The Atka and Amliia Shores of Amliia Pass

Scale 1 : 10,000 Date of survey September 13 & 14, 1943

Vessel M. V. E. LESTER JONES

Chief of party Elliott B. Roberts

Surveyed by Raymond M. Stone

Inked by Raymond M. Stone

Heights in feet above high water to ground ~~to tops of rocks~~

Contour, Approximate contour, Form line interval feet

Instructions dated Feb. 3, 1938, 19

Supplemental Instructions: Mar. 1, 1938, Apr. 3, 1939

~~REMARKS~~ June 7, 1939, May 8, 1940

Revised Instructions: Apr. 16, 1943, Apr. 19, 1943

DESCRIPTIVE REPORT TO ACCOMPANY SHEET FIELD NOS. "J" AND "K"
ALASKA, ALEUTIAN ISLANDS, ATKA ISLAND, SOUTH SHORE OF NAZAN BAY,
AND AMLIA AND ATKA SHORES OF AMLIA PASS

Instructions: Original ----- Feb. 3, 1938
Supplemental --- Mar. 1, 1938, Apr. 3, 1939
June 7, 1939, May 8, 1940
Revised ----- Apr. 16, 1943, Apr. 19, 1943

General Description of Coast: The general trend of shore line consists of rocky bluffs rising about 100 feet above the high water line. The rocky ledges as shown on the topographic sheet consist of flat lava rock completely submerged at high water. Mid Reef, likewise, is of flat lava rock about five feet above high water, but is awash in heavy weather.

The land area is covered with a heavy growth of tundra, the only form of vegetation on the island.

Landmarks: Three landmarks for charts were selected; the names and descriptions are as follows:

1. PINNACLE, 30 feet in height, on west shore of Amlia Pass, on northeast point of Atka shore; same as topographic station GEO.
2. PINNACLE, 80 feet in height, at end of reef extending south of Pinnacle Point, southwest point of Amlia shore; same as topographic station ROCK.
3. DOUBLE TIT ON HILLTOP, elevation 660 feet, the first high peak west of Amlia Pass on Atka Island; same as topographic station RAB.

For position of the above landmarks, refer to Form 567 "Landmarks For Charts", a duplicate of which is attached hereto.

Character of Control Used: On topographic sheet (Field No. J), triangulation stations REEF, PASS, & FOG (all of 1934) were used as control.

No discrepancies were noticed in connecting with the 1934 work.

As to topographic sheet (Field No. K), triangulation stations FOG 1934, NOSE 1943, and RIP 1943 served as adequate control. Positions of stations GEO and INT were determined by fourth order triangulation and were verified by topography which also acts as a check on the traverse run along the east shore of Atka Island. The shoreline on the west end of Amlia Island was surveyed after the Atka shoreline was completed. Cuts taken to signals on the Amlia shore were verified in the latter survey.

Mid Reef was located by means of tangents drawn from many sources. No rod readings were taken on Mid Reef due to the fact swift currents made landing operations hazardous.

Geographic Names: The following geographic names are recommended: EDDY POINT, SWIFT POINT, PINNACLE POINT, and MID REEF. These points have not been previously named. They are expressive of the features pertaining thereto, and are assigned to give facility to the writing of Coast Pilot Notes.

Magnetic Meridian: Due to possible local disturbance, additional determination of the magnetic meridian is shown. A compass-declinometer observation was made at triangulation station NOSE.
No appreciable disturbance indicated.

The error pertaining to each declinatoire is not known at the present time, however, all declinatoires used on this project have been checked and the results forwarded to the Washington Office. A copy of the report on "Calibration of Declinatoires" is attached hereto.
No appreciable error.

Previous Surveys: There are no previous surveys covering this locality. Adjacent surveys were made in 1934.

List of Signals located outside of the High Water Line are as follows:

<u>NAME</u>	<u>OBJECT</u>
ACE	Large boulder near HWL
DOG	28 foot block-shaped rock
FOG	Triang. stat. on lg. flat 6-foot rock on end of reef
GEO	Large detached 28-foot rock, (marked by topo disk)
NAME	Large boulder on ledge
NO	Large offlying 8-foot rock
PASS	Triang. stat. on lg. 10-foot rock on end of reef
REEF	Triang. stat. on lg. 12-foot rock
ROCK	80-foot rock pinnacle

Respectfully Submitted:

Raymond M. Stone
Raymond M. Stone
Lieut. (jg)
U.S. Coast & Geodetic Survey

Forwarded: Approved:

Elliott B. Roberts
Elliott B. Roberts
Lieut. Comdr., Ch. of Pty.,
Comdg., M.V. E. LESTER JONES

STANDARDIZATION OF DECLINATOIRES

Season 1943

E.V. "E. LESTER JONES"

ELLIOTT B. ROBERTS, COMMANDING

Declinatoires (Nos. 202 & 251), used on Project No. CS-218 and on the special project in Excursion Inlet, SE Alaska, were checked at magnetic station INGLEWOOD - 1940 (Inglewood Park, Washington), following the close of the 1942 season.

No standardization of these two declinatoires was made at the beginning of this season.

The mark used was the center of ball at top of flagpole at Inglewood Golf Club. More distant objects were not visible at that time.

Four readings were taken for the standardization of each instrument. The angles made with the true azimuth line were then scaled with a steel protractor, and the four values meaned. The resulting mean angle was applied to the true azimuth of the mark in each case to determine the value of magnetic north by declinoire. No magnetic values for the station are known, therefore, the computations are being submitted unfinished.

Following are the computations for each standardization:

Magnetic Station - 1st N. CO. 1940 (King County, State--Washington)
Lat. -- 47° 41.5' Long. -- 122° 15.0' N.A. 1927 Datum
Mark -- Center of ball at top of flagpole at Inglewood Golf Club
Date -- November 22, 1943 (Monday)

Declination -----

Diurnal Variation -----

Actual Variation -----

	Declinoire #202	Declinoire #251
105th Meridian Time -----	(14:55)	(14:31)
True Azimuth of Mark -----	141° - 43'	141° - 43'
Mean of Measured Angle (3) -----	61 - 27	61 - 23
	(-180 - 00)	(-180 - 00)
Magnetic North by declinoire-----	23° - 15'	23° - 11'
Actual Variation -----		
Declinoire Error -----		

The values which are unknown are to be filled in by the Office and computations completed.

Forwarded: Approved:

Respectfully Submitted:

Elliott B. Roberts
Lieut. Comdr., Ch. of Pty.,
Comdg., E.V. E. LESTER JONES

Raymond E. Stone
Lieut. (jg)
U.S. Coast and Geodetic Survey

Topographic Sheet No. T-6923a

Koniuji Island and N. Coast Atka Id.

Seattle Processing Office Notes

The projection for Koniuji Island is on the Atka datum of 1934.

The position of the Unalaska datum, obtained from unadjusted G. P. 's, computed by the Washington Office, is indicated on the sheet. On Accession No. G-5835 the position of Koniuji 1943 is:

Latitude 52° 13' + 303.2 Meters
Longitude 175 07 +1046.6 "

Edgar E. Smith
Assoc. Cartographic Engineer
Seattle Processing Office

Approved and Forwarded:

F. H. Hardy
Officer in Charge,
Seattle Processing Office.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

T6923

copy

LANDMARKS FOR CHARTS

TO BE CHARTED }
TO BE DELETED } STRIKE OUT ONE

400 Insurance Bldg. Seattle 9/27/43 193

I recommend that the following objects which have (~~have not~~) been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.

The positions given have been checked after listing.

[illegible]

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

U. S. GOVERNMENT PRINTING OFFICE 16-50777-2

Remarks

Decisions

1		
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3		520 750 USG-B
4		520 740 "
5		"
6		520 730
7		520 740
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GEOGRAPHIC NAMES
Survey No. **T6923**

GEOGRAPHIC NAMES											
Survey No. T6923											
Name on Survey											
	A,	B,	C,	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Aleutian Islands</u>											2
<u>Koniuji Island</u>											3
<u>Atka Island</u>											4
<u>Nazan Bay</u>											5
<u>Amlia Islands</u>											6
<u>Amlia Pass</u>											7
<u>Mid Reef</u>											8
<u>Eddy Point</u>											9
<u>Pinnacle Point</u>											10
<u>Swift Point</u>											11
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											27

Names underlined in red approved

by L. Heck on 3/14/15

M 234

Names underlined in red approved
by L. Heck on 3/14/45

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

No. H

No. T

T6923 *a-b-c*

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.

ROUTE		Initial	Attention called to
20			
22			
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63			
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83			
88			
90			

RETURN TO

82	Comdr. R. W. Knox
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✓ RWC

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6923a

Field No. I-1943

Aleutian Islands; Atka Island, Koniuji Island
Surveyed July, 1943 Scale 1:20,000
Project CS-218

Plane Table Survey

Aluminum Mounted

Chief of Party - E. B. Roberts
Surveyed by - E. B. Brown
Inked by - E. B. Brown
Reviewed by - J. A. McCormick
Inspected by - H. W. Murray, February 16, 1945.

Small but precipitous, Koniuji Island lies about 10 miles off the north coast of Atka Island. No previous surveys of the island are available. Its present charting is from advance Bp. 37488 of 1943, which does not approach the detail of the present survey. It will be noted that Chart 9137 (print of Dec. 2, 1943) shows an elevation of 1113 feet as compared with a maximum of 880 feet on the survey. Authority for the 1113 was not traced beyond the first edition (1908) of Chart 9102 but there can be no question concerning its rejection in view of the detail available on the present survey.

Declinatoire observations on Koniuji indicate local magnetic attraction of as much as 18 degrees. Special investigation should be made of the area with precise instruments.

Examined and approved:

Charles Price

Chart Division

J. S. Borden

Chief, Chart Division

Earl O. Heston

Chief, Section of Hydrography

Raymond C. Lyman
Pitt Chief, Division of
Coastal Surveys.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

REGISTRY NO. 6923 b & c

Field No. J-K-1943

Aleutian Islands; Amlia Pass; Atka and Amlia Islands
Surveyed Sept., 1943, Scale 1:10,000 and 1:20,000
Project CS-218

Plane Table Survey

Aluminum Mounted

Chief of Party - E. B. Roberts
Surveyed by - R. M. Stone
Inked by - R. M. Stone
Reviewed by - J. A. McCormick
Inspected - H. W. Murray, February 17, 1945.

1. Adjoining Surveys

Junction of T-6923b with T-6209 (1934) on the north is excellent. Satisfactory junction also was effected between T-6923b and c.

2. Previous Surveys

None available.

3. Comparison with Chart 9010 (print of Dec. 7, 1943)

Solid shoreline charted in this area is from Bp. 37630, advance compilation of present topography and contemporary hydrography. Small dashed island shapes charted in lat. 52°07.5' long. 171°04.3' probably do not exist as above-water features but can be retained on the chart until hydrography is extended to cover their charted positions. Otherwise the chart should be revised to agree with the survey.

Declinatoire observations in the area indicate normal variation.

4. Compliance with Project Instructions

Satisfactory.

5. Additional Field Work Recommended

The survey should be extended, particularly to close the unsurveyed gap between Swift Point and Pinnacle Point on Amlia Island (T-6923c).

Examined and approved:

Charles Peice
Chart Division

J. S. Orben
Chief, Chart Division

Carl O. Henson
Chief, Section of Hydrography

Raymond C. Gorman
Atty. Chief, Division of
Coastal Surveys.

NAUTICAL CHARTS BRANCH

SURVEY NO. T692.3

Record of Application to Charts

[illegible]

M-2168-1

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.