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 Nazan Bay and Amlia

& Atka Shores of Amlia Pass

1943

CHIEF OF PARTY

Elliott B. Roberts

LIBRARY & ARCHIVES

DATE: February 8, 1944
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. I
REGISTER NO. T6923a

State... ALASKA

Aleutian Islands
Atka Island

General locality... ALEUTIAN ISLANDS

Locality... KONIUJI ISLAND, North Coast ATKA ISLAND

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

Vessel... MV F. 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... Contour Approximate contour... Form line interval... 100 feet


Remarks:

...
INSTRUCTIONS: Original------ Feb. 3, 1938
        Supplemental--- Mar. 1, 1938, Apr. 3, 1939
        June 7, 1939, May 8, 1940
        Revised-------- Apr 16, 1945, Apr 19, 1945

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 Ráb. 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 declinatoir No. 251. Moderate local attraction is indicated.

Copy of report "Calibration of Declinatoires" is attached.
PREVIOUS SURVEYS: None.

SIGNS OUTSIDE HIGHWATER LINE: Gee - 3 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".
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 Amlia Islands

Locality: 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: 400

Contour, Approximate contour, Form line interval: feet

Instructions dated: Feb. 3, 1938

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

Revised: June 7, 1939, May 8, 1940

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

REGISTER NO. T-6923c

State. Alaska Aleutian Islands

General locality. Atka and Amlia Islands

Locality. The Atka and Amlia Shores of Amlia 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

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

Instructions dated. Feb. 3, 1939

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

Rev. & Sup. June 7, 1939, May 9, 1940

Revised Instructions: Apr. 16, 1943, Apr. 19, 1943
DESRIPTIVE REPORT TO ACCOMPANY SHEET FIELD NOS. "J" AND "K"
ALASKA, ALEUTIAN ISLANDS, ATKA ISLAND, SOUTH SHORE OF NAZAN BAY,
AND AMILIA AND ATKA SHORES OF AMILIA 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 weath-
er.
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 Amilia 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 Amilia shore; same as topo-
   graphic station ROCK.
3. DOUBLE TIT ON HILLTOP, elevation 660 feet, the first high peak
   west of Amilia 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), triang-
ulation 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 sta-
tions 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:

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

Respectfully Submitted:

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

Forwarded: Approved:

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

Season 1943

E.E. "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 was the center of ball at top of flagpole at Inglewood Golf Club. Some 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 declinatoire. No magnetic values for the station are known, therefore, the computations are being submitted unfinished.

Following are the computations for each standardization:

Magnetic Station - INGLEWOOD, WA (Int. County, State - Washington)
Lat. — 47° 33' 19" Long. — 122° 19' 10" H.M. 1927 Datum
Mark — Center of ball at top of flagpole at Inglewood Golf Club
Date — October 29, 1943 (C.T.L.)

<table>
<thead>
<tr>
<th></th>
<th>Declinatoire #202</th>
<th>Declinatoire #251</th>
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<tbody>
<tr>
<td>Declination</td>
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<tr>
<td>Meridional Variation</td>
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<tr>
<td>Actual Variation</td>
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</table>

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<tr>
<th></th>
<th>14:56</th>
<th>14:31</th>
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<tbody>
<tr>
<td>10th Meridian Time</td>
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<tr>
<td>True Azimuth of Mark</td>
<td>141° - 43'</td>
<td>141° - 43'</td>
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<tr>
<td>Mean of Measured Angle (G)</td>
<td>61 - 57</td>
<td>61 - 57</td>
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<td>(100 - 00)</td>
<td>(-100 - 00)</td>
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<tr>
<td>Magnetic North by declinatoire</td>
<td>25° - 11'</td>
<td>25° - 11'</td>
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<tr>
<td>Actual Variation</td>
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<tr>
<td>Declinatoire Error</td>
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</table>

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

Forwarded: Approved:

Elliott B. Roberts
Lieut. Commander, Ch. of Poy.
Comdg., E.E. LESTER JONES

Respectfully Submitted:

Raymond E. Stone
Lieut. (Jg)
U.S. Coast and Geodetic Survey
Topographic Sheet No. T-6923a

Koniujji Island and N. Coast Atka Id.

Seattle Processing Office Notes

The projection for Koniujji 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-5838 the position of Koniujji 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.
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.

<table>
<thead>
<tr>
<th>GENERAL LOCALITY</th>
<th>NAME AND DESCRIPTION</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PINNACLE (Tope Sta. GEO)</td>
<td>52.07</td>
<td>152.2</td>
<td>Unalaska Topo</td>
<td>Sept 43</td>
<td>x</td>
</tr>
<tr>
<td></td>
<td>&quot; (Tope Sta Rock)</td>
<td>52.06</td>
<td>119.2</td>
<td>&quot; Topo</td>
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<td></td>
<td>DOUBLE TITON HILLTOP (Tope RAB)</td>
<td>52.07</td>
<td>108.1</td>
<td>&quot;</td>
<td>&quot;</td>
<td>x</td>
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*Note: To obtain NA 1927 from Unalaska datum:
Lat. = subtract 32 meters
Long. = subtract 192 meters

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.
<table>
<thead>
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<th>Remarks</th>
<th>Decisions</th>
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<td>Koniuji Island</td>
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<td>Atka Island</td>
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<td>Nanan Bay</td>
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<td>Amlia Islands</td>
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<td>Amlia Pass</td>
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<td>Mid Reef</td>
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<td>Eddy Point</td>
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<tr>
<td>Pinnacle Point</td>
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<td>Swift Point</td>
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Names underlined in red approved by L. Heck on 3/14/45
MEMORANDUM
IMMEDIATE ATTENTION

SURVEY DESCRIPTIVE REPORT  }  No. H
PHOTOSTAT OF  }  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.

<table>
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<tr>
<th>ROUTE</th>
<th>Initial</th>
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RETURN TO
82  Cmdr. R. T. Knox


DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF TOPOGRAPHIC SURVEY

Field No. I-1943

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

Plane Table Survey

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. 37466 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 (1903) 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:

[Signatures]

Chart Division

Chief, Section of Hydrography

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

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 contem-  
   porary 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.

   Declinatourie 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:

Chart Division

Chief, Chart Division

Chief, Section of Hydrography

Acting Chief, Division of Coastal Surveys.
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>(see back cover)</td>
<td></td>
<td>Before After Verification and Review</td>
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<tr>
<td>7/10/45 9137 LAM 9190</td>
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<td>Before After Verification and Review</td>
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<td>Before After Verification and Review</td>
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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.