

6849

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Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic
Field No. 2443 Office No. H-6849

LOCALITY
Aleutian Islands
State Alaska
General locality Atka Island
~~Aleutian Islands~~
Locality Koniuji Island

1943

CHIEF OF PARTY
Casper M. Durgin E. B. Roberts
SURVEYOR E. Lester Jones

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

HYDROGRAPHIC TITLE SHEET

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

Field No. 2443

REGISTER NO. H-6849

State ~~Alaska~~ Aleutian Islands

Atka Island.

General locality ~~Aleutian Is.~~ North Coast

Locality ~~vicinity of Koniugi I.~~

Scale 1:20,000 Date of survey July 23 - Aug. 11 1943

Vessel Ship SURVEYOR & M.V. E. LESTER JONES

Chief of Party Casper M. Durgin

Surveyed by L. G. Wilder & E. B. Roberts

Protracted by Betty B. Jones

Soundings penciled by Betty B. Jones

Soundings in fathoms ~~XXX~~ and tenths

Plane of reference M.L.L.W.

Subdivision of wire dragged areas by

Inked by J. A. McCormick

Verified by "

Instructions dated April 16, 1943

Remarks: Smooth sheet and plotting by Seattle Processing Office

TIDAL NOTE

to accompany

Hydrographic Survey

H-6849 (Field No. 2443)

Aleutian Islands

Koniuji I.

The tide gage at Bechevin Bay was used for the reduction of all soundings.

The plane of mean lower low water corresponds to a reading of 4.1 feet on Staff No. 1 (June 5 - June 25); 3.9 feet on Staff No. 2 (June 29 - August 14); and 3.9 feet on Staff No. 3 (Aug. 22).

(See special report on tidal data, Project CS-218, 1943).

Latitude $52^{\circ} 01'.98$ N

Longitude. $175^{\circ} 07'.12$ W

Unalaska Datum

Highest tide . . . 8.9 ft. on July 15, 1943

Lowest tide. . . . 2.5 ft. on Aug. 14, 1943

Authority: Director's letter dated July 12, 1943.

FINAL FATHOMETER CORRECTIONS

SURVEYOR'S Launches & E. LESTER JONES

Hydrographic Surveys H-6845, 6846, 6847, 6848 & 6849

Portable Recorders - Type 808A

<u>Depth</u> (fms.)				<u>Corr.</u> (feet)
0	to	2	=	-0
2	to	6	=	- $\frac{1}{2}$
6	to	10	=	-1
10	to	13 $\frac{1}{2}$	=	-1 $\frac{1}{2}$
13 $\frac{1}{2}$	to	17 $\frac{1}{2}$	=	-2
17 $\frac{1}{2}$	to	21 $\frac{1}{2}$	=	-2 $\frac{1}{2}$
21 $\frac{1}{2}$	to	25	=	-3
25	to	28 $\frac{1}{2}$	=	-3 $\frac{1}{2}$
28 $\frac{1}{2}$	to	32 $\frac{1}{2}$	=	-4
32 $\frac{1}{2}$	to	36	=	-4 $\frac{1}{2}$
36	to	39 $\frac{1}{2}$	=	-5
39 $\frac{1}{2}$	to	43	=	-5 $\frac{1}{2}$
43	to	47	=	-6
47	to	50	=	-6 $\frac{1}{2}$
50	to	53 $\frac{1}{2}$	=	-7
53 $\frac{1}{2}$	to	56 $\frac{1}{2}$	=	-7 $\frac{1}{2}$
56 $\frac{1}{2}$	to	60	=	-8
60	to	63	=	-8 $\frac{1}{2}$
63	to	66 $\frac{1}{2}$	=	-9
66 $\frac{1}{2}$	to	70	=	-9 $\frac{1}{2}$
70	to	73 $\frac{1}{2}$	=	-10
73 $\frac{1}{2}$	to	76 $\frac{1}{2}$	=	-10 $\frac{1}{2}$
76 $\frac{1}{2}$	to	80	=	-11
80	to	83	=	-11 $\frac{1}{2}$
83	to	86 $\frac{1}{2}$	=	-12
86 $\frac{1}{2}$	to	90	=	-12 $\frac{1}{2}$
90	to	93	=	-13
93	to	96 $\frac{1}{2}$	=	-13 $\frac{1}{2}$
96 $\frac{1}{2}$	to	100	=	-14
100	to	103	=	-14 $\frac{1}{2}$
103	to	106	=	-15
106	to	112 $\frac{1}{2}$	=	-16
112 $\frac{1}{2}$	to	119	=	-17
119	to	125	=	-18
125	to	132	=	-19
132	to	139	=	-20
139	to	145	=	-21
145	to	151	=	-22
151	to	158	=	-23

STATISTICS

H-6949 (Field No. 2443)

Aleutian Islands - Koniuji I.

Project CS-218

SURVEYOR and E. LESTER JONES

Day	Vol.	1943	Vessel	Pos.	Stat. Mi.
A	1	7/23	E. LESTER JONES	101	29.6
B	1	7/25	"	44	15.2
a	2	8/11	Lch.#1 - SURVEYOR	55	5.7
a	3	8/4	Lch.#2 - "	137	20.8
<hr/>					
Totals	3			337	71.3
<hr/>					
	1		E. LESTER JONES	145	44.8
	2		SURVEYOR	192	26.5

Area Squ. stat. mi. 6.5

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H6849**

Records accompanying survey:

Boat sheets; sounding vols.; wire drag vols.;
 bomb vols.; graphic recorder rolls;
 special reports, etc.

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.337
Number of positions checked	...6
Number of positions revised	...9
Number of soundings recorded
Number of soundings revised (refers to depth only)
Number of soundings erroneously spaced
Number of signals erroneously plotted or transferred
Topographic details	Time
Junctions	Time
Verification of soundings from graphic record	Time

Verification by J.A. McCormick Total time 20 hrs. Date 2/14/45.

Review by J.A. McCormick Time 2 hrs Date 2/17/45.

GEOGRAPHIC NAMES

Survey No. H6849

Name on Survey										
	A	B	C	D	E	F	G	H	K	
Alentian Islands						Port title				1
Koniuji I			520	750				USB		2
Atka I							"	"		3
										4
										5
										6
										7
										8
										9
Bechevin Bay									location of tide staff.	10
										11
										12
										13
										14
										15
										16
										17
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										19
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										24
										25
										26
										27

by L. Heck on 2/28/45

LAC
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TIDE NOTE FOR HYDROGRAPHIC SHEET

September 21, 1944.

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 6849


Locality Vicinity of Koniuji Island, North coast Atka I.,
Aleutian Islands.

Chief of Party: E. B. Roberts and C. M. Durgin in 1943
Plane of reference is mean lower low water reading
3.9 ft. on tide staff at Bechevin Bay
5.3 ft. below B. M. 1

Height of higher high water above plane of reference is 3.6 feet.

(Tide is chiefly diurnal)

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

NOTES FOR DESCRIPTIVE REPORT

To Accompany

HYDROGRAPHIC SURVEY

H-6849 (Field No. 2443)

INSTRUCTIONS

This work was executed in accordance with Director's Instructions, dated April 16, 1943. ✓

LIMITS

The survey comprises the hydrography immediately adjacent to Koniuji Island. It is joined on all sides by contemporary Hydrographic Survey H-6850(1943)

SURVEY METHODS

Standard methods were used throughout. The positions of all soundings were determined by sextant fixes on fixes ashore. All signals were located by theodolite or planetable in accordance with standard practice. ✓

DISCREPANCIES

No discrepancies were noted during the progress of the work. ✓

DANGERS

The shores of Koniuji Island are clear of dangers at a distance of one-half mile from shore. ✓

H-6849 (Field No. 2443)

Aleutian Is.

N. Coast Atka I.

Koniuji Island

PROCESSING OFFICE NOTES

DATUM

Boat sheets - Atka 1925 - 1934. ✓
Smooth sheet: - Unalaska, Unadjusted.

CONTROL

Based on 1943 triangulation. Topographic signals from T-6923a (1943) ✓
shoreline from the same source. Transfer was verified.

PROJECTION

Made in Seattle Processing Office, on Paragon paper. ✓

DEPTH UNIT

Fathoms and tenths. ✓

Respectfully submitted,

Edgar E. Smith
Edgar E. Smith
Assoc. Cartographic Engr.

Approved and forwarded:

F. H. Hardy
F. H. Hardy, Capt., C&GS
Officer in Charge
Seattle Processing Office

STATISTICS

Status miles of sounding - 71.3
Number of positions - 337

Respectfully submitted, ✓

Clarence A. George

Clarence A. George
H & G Engr.

Approved and forwarded:

L. C. Wilder

L. C. WILDER, Commanding
Ship SURVEYOR

DIVISION OF CHARTS

Hydrographic Section — Nautical Chart Branch

REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6849

Field No. 2443

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

Soundings:

808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - C. M. Durgin
Surveyed by - L. C. Wilder; E. B. Roberts
Protracted by B. B. Jones
Soundings plotted by - B. B. Jones
Verified and inked by - J. A. McCormick
Reviewed by - J. A. McCormick
Inspected by - H. W. Murray, February 17, 1945

1. Shoreline and Signals

Shoreline and topographic signals are from T-6923a (1943).

2. Sounding Line Crossings

Excellent.

3. Depth Curves

The bottom slopes rather sharply outside the 20-fathom curve on all sides of the island. On the northwest, the 200-fathom curve is only a mile from shore. As with other surveys in this series, an intermediate curve has been added at 75 fathoms to accentuate the relief.

4. Adjoining Surveys

Satisfactory junction was effected with offshore survey H-6850 (1943) on all sides.

5. Previous Surveys

None available.

6. Comparison with Chart 8862 (Print of Jan. 27, 1944)
Chart 9137 (Print of Dec. 2, 1943)

Hydrography charted in the area is from blueprint 37488, an advance compilation of 1943 surveys. It will be noted that inshore soundings on the blueprint differ

considerably from those on the reviewed survey, principally because of misinterpretations due to kelp. The charts should be revised to agree with the survey.

7. Compliance with Project Instructions

Excellent.

8. Additional Field Work Recommended

None.

Examined and approved:

Charles Prince
Division of Charts

J. S. Borden
Chief, Division of Charts

Earl O. Heston
Chief, Section of Hydrography

Raymond P. Egan
Acting Chief, Division of Coastal Surveys

Applied to Chart 8862 (Correction) Jan 1945 HEM