# 6850

#### Form 504

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

#### REPORT **DESCRIPTIVE**

Type of Survey Hydrógraphic Field No. 6143 Office No. H-6850 LOCALITY Aleutian Islands Alaska Island Atka General locality Aloutian Islands Cape Korovin to Kasatochi Island Locality North coast Atka Island 194 <u>z</u>... CHIEF OF PARTY Casper M. Durgin SURVEYOR LIBRARY & ARCHIVES DEC 9 1944

DATE ..

B-1870-1 (1)

#### DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

# 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. 6145

REGISTER NO. 9-0680
State Aleutian Islands Atka Island
General locality Aleution Islands Cape Korovin to Kasatochi Island
Locality
Scale 1:60,000 Date of survey May 14 - Aug. 13, 19 45
Vessel Ship SURVEYOR
Chief of Party
Surveyed by C.M.Durgin, W.F.Malnate, L.C.Wilder, L.S.Hubbard
Protracted by
Soundings penciled by Marion T. Gwinn
Soundings in fathoms **** Fathoms and Conths
Plane of reference
Subdivision of wire dragged areas by
Inked by J. A. Mc Cormick
Verified by
Instructions dated April 16, 1945
Remarks: Smooth Sheet and Plotting by the
Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

## NOTES FOR DESCRIPTIVE REPORT

#### To Accompany

#### HYDROGRAPHIC SURVEY

H-6850 (Field No. 6143)

#### INSTRUCTIONS

This survey was executed under authority of the Director's Instructions, dated April 16, 1943.

#### LIMITS

The survey comprises the hydrography on the north shore of Atka Island from the mouth of Korovin Bay to Cape Kigun, approximately outside of the fifty-fathom curve and extending to the thousand-fathom curve. The survey joins previous surveys by the U.S. Navy on 1943 the west and contemporary/surveys as follows:

H-6845 on the east \*
H-6846 on the southeast
H-6847 on the south
H-6848 on the southwest\*
H-6849 in the area bounding Koniuji Island \*

\* In office at time of review.

#### SURVEY METHODS

Standard methods were used throughout this survey, positions being controlled by sextant fixes on located objects ashore. These objects were located by triangulation and topography, and supplemented by hydrographic signals located from the ship by sextant cuts on landmarks ashore. To expedite the hydrography, many objects were located by sextant cuts early in the season and, later, better located as topography was accomplished.

#### DISCREPANCIES

Since the boat sheet was accomplished on the Atka, 1933
Smooth sheet on Unalaska Datum, it does not properly join work by the U.S. Navy on their Datum.

datum by the amount of the difference in datum. This discrepancy will be eliminated when a common datum is used.

It is expected that small discrepencies, shown by intersections of sextant cuts locating hydrographic signals, will be minimized upon the smooth plotting of the sheet.

The area was previously unsurveyed, so no discrepencies exist with old surveys.

#### DANGERS

Koniuji Island, which is about  $\frac{1}{2}$  mile in diameter and  $\frac{1115}{1115}$  feet high, is considered the only danger due to the offshore nature of this sheet.

#### ANCHORAGES

There are no anchorages within the limits of this survey.

#### GEOGRAPHIC NAMES

No new geographic names are submitted for features within the limits of this survey.

#### STATISTICS

Statute miles of sounding - 1135.4 Number of positions - 1580.0

Respectfully submitted,

Clause 9. Claye-

CLARENCE A. GEORGE, H. & G.E. U.S.C. & G. Survey

Approved and forwarded:

L.C. WILDER, Commanding

Ship SURVEYOR

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#### H-6850

#### North Coast of Atka Island

#### Seattle Processing Office Notes

#### Control:

The 1943 triangulation by Scaife, Meaney, and Roberts is the basic control. It is on the Unalaska Datus - unadjusted. This work was originally on the Atka datum, but the triangulation was recomputed on Unalaska datum by the Washington Office, these recomputations including also the U.S.N. triangulation to westward of Atka.

#### Signals:

Topographic signals are from sheets T-6917, T-6918, T-6919, -T-6920, T-6921, and T-6922 of 1943.

The sounded area is simple, uncomplicated, and clear, and requires one further comment.

#### TIDAL NOTE

#### To Accompany

#### HYDROGRAPHIC SURVEY

#### H-6850

#### Field No. 6143

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

The plane of mean lewer low water corresponds to a reading of \$.1 feet on Staff No. 1, (June 5 to June 25); 3.9 feet on Staff No. 2, (June 29 to August 14); and 3.9 feet on Staff No. 3, (August 22, 1945).

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

8.9 feet on July 15, 1943. Highest Tide

2.5 feet en August 14, 1943. Lowest Tide

52° 01198

Unalaska Datum

175 07.12 Longitude

Latitude

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

H-6850 STATISTICS

Date	Day	Ship	Vol. No.	No. of Positions	H.L. & Wire Soundings	Stat. Mi. Sdg. Line	
1943							
5/14	A	Surveyor	1	117	4	86.9	
5/18	В	Ħ	1	15	0	11.5	
5/19	C	**	1 & 2	145	3 •	102.4	
5/20	D	n	2	84	2	60.2	
5/21	E	**	2	90	4	53.7	
5/24	Ŗ	**	2	18	1	11.8	
5/27	G	*	2 & 3	63	2	36.7	
6/3	H	Ħ	3	15	2	8.2	
6/4	J	*	3	52	2	34.0	
6/5	K	*	3	39	2	28.8	
6/17	L	H	3	73	1	46.7	
6/18	M	11	3 & 4	94	1	64.6	/
6/27	N	11	4	142	1	93.9	
6/28	P	m	4	25	0	17.2	
6/30	Q	n	4	57	0	57.0	
7/4	R	#	4 & 5	38	1	23.0	
7/21	S	#	5	23	1	15.0	
7/25	Ŧ	•	5	96	2	78.8	
7/26	υ		5	94	2	73.7	
7/27	Ą	•	5 & 6	92	2	69.2	
7/28	¥	#	6	70	2	46.7	
8/4	x	Ħ	6	105	2	92.4	
8/15	Y	**	6	53	1	23.0	
•		<b>-</b> :	6 Yo1:	s. 1580	38	1135.4	

Area 505.0 8 qu Stat. Mi

Respectfully submitted,

Edgar E. Smith

Cartographic Engineer Seattle Processing Office

Approved and Forwarded:

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

# Surveys Section (Chart Division)

# HYDROGRAPHIC SURVEY NO. H6850

Records accompanying survey:		•	•
Boat sheets; sounding vols6;	wire dra	g vol	s;
bomb vols; graphic recorder roll	ls .2;		
special reports, etc	• • • • • • •	• • • • •	
•••••••••••		• • • • •	• • • • • • • •
The following statistics will be submitted rapher's report on the sheet:	l with the	e car	tog-
Number of positions on sheet	1580		
Number of positions checked	39		
Number of positions revised	20	:	
Number of soundings recorded	11000 (a	bbLox)	• 4
Number of soundings revised (refers to depth only)	13		
Number of soundings erroneously spaced	. many		•
Number of signals erroneously plotted or transferred	0.		
Topographic details Time	••••		<b>9</b>
Junctions Time	••••		
Verification of soundings from graphic record Time	••••	1	-0-
Verification by A. M. Germick Total time	130 hrs.	Date	2/10/45.
Review by J.A. Mc Cormick Time	. 4 hrs.	Date	2/19/45.

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		GEOGRAPHIC NAMES Survey No. 16850	or or	Char. Or	denor ou	1.5 Meda	Striot dior	Trides Hote	O Guide of	Mar Hensily	J.S. Jake	<i>§</i> /
		Name on Survey  Aleutian Island	A	В	/ c	D	E	/ F	G	/ н	/ K	1
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FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
Rev. June 1937

## TIDE NOTE FOR HYDROGRAPHIC SHEET

January 11, 1945.

Division of Hydrography and Topography:

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in 6 volumes of sounding records for

HYDROGRAPHIC SHEET 6850

Locality North Ccast of Atka Island, Aleutian Islands, Alaska.

Chief of Party: C. M. Durgin in 1943
Plane of reference is mean lower low water reading
4.1 ft. on tide staff at No. 1 at Bechevin Bay
5.3 ft. below B. M. 1

3.9 ft. on tide staff No. 2 and 3 at Bechevin Bay

5.3 ft. below B. M. 1

Height of mean high water above plane of reference is 2.5 feet.

Condition of records satisfactory except as noted below:

At Chief, Division of Tides and Currents.

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#### DIVISION OF CHARTS

Hydrographic Section - Nautical Chart Branch

#### REVIEW OF HYDROGRAPHIC SURVEY REGISTRY NO. 6850 Field No. 6143

Aleutian Islands; Atka Island; Cape Korovin to Kasatochi Island Surveyed in May-August 1943, Scale 1:60,000 Project CS-218

### Soundings:

#### Control:

808 Fathometer Dorsey Fathometer 312 Fathometer Three-point fix on shore signals

Chief of Party - C. M. Durgin Surveyed by - C. M. Durgin Protracted by - M. T. Gwinn Soundings plotted by - M. T. Gwinn Verified and inked by - J. A. McCormick Reviewed by - J. A. McCormick

Inspected by - H. W. Murray, February 19, 1945

#### 1. Sounding Line Crossings

In depths to 100 fathoms, the crossings are excellent. Deeper than 100 fathoms, some disagreement is found on steep slopes but on the whole the agreement is very satisfactory for such bottom.

#### 2. Depth Curves

Detailed curves drawn by Mr. H. W. Murray bring out the submarine features of the area very clearly. Intermediate curves have been used where necessary to accentuate small rises and deeps.

#### 3. Adjoining Surveys

Excellent junctions were effected with H-6845 (1943) on the east, H-6848 (1943) on the southwest, and with H-6849 (1943) in the vicinity of Koniuji Island. Other 1943 inshore surveys (see descriptive report) had not been received in the office at this writing.

On the west, the present survey overlaps H-6898, a Navy survey made in 1934. Agreement of overlapping depths is better than is usually the case where offshore Navy surveys are involved.

Previous Surveys

None available.

Comparison with Chart 8862 (Print of Jan. 27, 1944) 5. Chart 9136 (Print of Nov. 25, Chart 9137 (Print of Dec.

Hydrography charted in the area is from blueprint 37488, advance compilation of present and adjoining surveys. Depths on the print are from boatsheets and consequently uncorrected and subject to adjustment in position. There are no major differences between charts and survey but the charts should be revised to eliminate such differences as do exist.

- 6. Compliance with Project Instructions Satisfactory.
- Additional Field Work Recommended 7. None.

Examined and approved:

Division of Charts

Chief, Section of Hydrography

Surveys

# NAUTICAL CHARTS BRANCH

# SURVEY NO. <u>#6850</u>

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/16/45	9136	F.M.A.	After Verification and Review factual appl.
7/1/45	9157	Aa Melana	
7/1/45	9138	La. M. Gann	Refere After Verification and Review
7/12/45	9/37	Fa. M. Gam	Pater After Verification and Review
DOJN 1947	9102	A. F. Digman	Before After Verification and Review Zhun chl 8862
Dak 1947	8862	X.7. Degman	Hotore After Verification and Review the fact thru chile.
11-13-69	9/36	Hawled Schurt	Rafore After Verification and Review
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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.

4-16-45. Partial application to chart 9136