

7077

Diag'd. on Diag. Ch. No. 9198

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. DE-025145 Office No. 7077

LOCALITY

State ALASKA - ALEUTIAN ISLANDS

General locality ATTU ISLAND

Locality Kelliher Cove

194 5

CHIEF OF PARTY

L. C. Wilder

LIBRARY & ARCHIVES

DATE APR 24 1946

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7077

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. DE 025145

REGISTER NO. H-7077

State Alaska - Aleutian Islands

General locality Attu Island

Locality Kelliher Cove

Scale 1:2,500 Date of survey 20 July, 1945

Vessel DERICKSON

Chief of Party L. C. Wilder

Surveyed by L. C. Wilder

Protracted by Marion T. Gwinn

Soundings penciled by Marion T. Gwinn

Soundings in fathoms ^{and tenths} ~~XXXX~~ by Graphic Recorder

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by R. E. EIKINS

Verified by R. E. EIKINS

Instructions dated 16 April 1943, 19

Remarks: Smooth Sheet and Plotting by the
Seattle Processing Office

DESCRIPTIVE REPORT

To Accompany

Hydrographic Sheet **7077** (Field No. DE-025145)

Scale 1:2500

Kelliher Cove, Attu Island, Alaska

L. C. Wilder, Chief of Party

U.S.C. & G.S.S. DERICKSON

1945

PROJECT: This hydrography was accomplished under Project CS-218, dated 16 April 1943. Supplemental instructions were dated 1 February 1944. Instructions by Capt. F. B. T. Siems dated 7 June 1945 and 6 July 1945, Project 30.

SURVEY LIMITS AND DATES: This work covers Kelliher Cove only, a small cove located at the south part of Khlebnikof Point, Attu Island. The work was originally authorized for the use of Navy landing craft in putting supplies ashore in this locality. All hydrography was accomplished on 20 July 1945.

VESSEL AND EQUIPMENT: The 24-foot Motorsailer from the DERICKSON equipped with an SOSA Fathometer was used for the work. L. C. Wilder, Chief of Party, was in charge of the launch.

TIDES AND CURRENTS: A portable automatic gage was maintained at the dock near the head of the bay in Chichagof Harbor. No current stations were established.

CONTROL STATIONS: There is one triangulation station on the sheet, SPARKS 1944, located by parties from the SURVEYOR. Topographic stations were located on Topographic Sheet DE-B-45. (See Descriptive Report for Topographic Sheet DE-B-45.) *77009a*

SHORELINE AND TOPOGRAPHY: Taken from above mentioned topographic sheet.

SOUNDINGS: The sounding unit was fathoms and tenths. No unusual methods were used. Area was first searched for offlying reefs and shoals. All possible dangers to small and large craft were carefully located. Kelp marked all rocks and reefs. These kelp patches were carefully searched with Fathometer and leadline.

CONTROL OF HYDROGRAPHY: Standard hydrographic practices were followed. Two angles were used. Extreme caution was taken so the angles were close together when the angles were marked. Care was exercised that both angles were observed at the same instant.

STATISTICS FOR HYDROGRAPHIC SURVEY H 7077 (DE-025145)

Vol. No.	Day Letter	Date 1945	No. Sdgs. H.L.	No. Positions	No. of Statute Miles Sdgs.
1	a	20 July	25	130	3.4
TOTALS			25	130	3.4

Sounding with Type 808A Depth Recorder. Continuous profile on all lines.

Area covered by survey = 0.04 sq. statute miles.

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TIDE NOTE

A portable automatic tide gage was maintained at the U.S.A.A.F. pier in Chicago Harbor; Latitude $52^{\circ}-55.9'$ N. Longitude $173^{\circ}-14.2'$ E. The observed tides at this station were used for the reduction of all soundings taken on this sheet. Several days' tides are missing during the series. When sounding, during these periods, the tide staff was read and these heights have been used in lieu of the marigrams. They are recorded in the sounding ^{volumes} for Sheet No. 7077 DE-025¹45. The height of mean lower low water and mean high water correspond to readings of 3.3 feet and 6.9 feet, respectively, on the tide staff. (See Director's letter of 24 August 1945, reference 36-mih). No time or height corrections have been applied to the observed tides.

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VELOCITY CORRECTIONS - 20 JULY TO 8 AUGUST 1945

Ship
SOCA - Velocity of 520 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	0.0	5.0
- 0.1	5.1	12.5
- 0.2	12.6	19.0
- 0.3	19.1	25.0
- 0.4	25.1	31.0
- 0.6	31.1	42.0
- 0.8	42.1	52.0
- 1.0	52.9	63.0
- 1.2	63.1	73.4
- 1.4	73.5	83.4
- 1.6	83.5	93.4
- 1.8	93.5	103.5
- 2.0	103.6	113.5
- 2.5	113.5	142
- 3.0	143	---

Launcher
SOCA - Velocity of 520 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	0.0	5.0
- 0.1	5.1	12.5
- 0.2	12.6	19.0
- 0.3	19.1	25.1
- 0.4	25.2	30.8
- 0.6	30.9	42.0
- 0.8	42.1	52.0
- 1.0	52.1	---

Ship
SNC - Velocity of 500 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	0	40
+ 0.5	41	143
+ 1.0	144	235
+ 1.5	236	300
+ 2.0	301	350
+ 2.5	351	400
+ 3.0	401	440
+ 3.5	441	480
+ 4.0	481	520
+ 4.5	521	560
+ 5.0	561	590
+ 5.5	591	630
+ 6.0	631	660
+ 6.5	661	700
+ 7.0	701	730
+ 7.5	731	770
+ 8.0	771	805
+ 8.5	806	839
+ 9.0	840	865
+ 9.5	866	900
+ 10.0	901	925
+ 10.5	926	955

Ship (Cont.)
SNC - Velocity of 500 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
+ 11.0	956	980
+ 11.5	981	1010
+ 12.0	1011	1038
+ 12.5	1039	1065
+ 13.0	1066	1090
+ 13.5	1091	1115
+ 14.0	1116	1135
+ 14.5	1139	1150
+ 15.0	1161	1185
+ 15.5	1186	---

APPROVAL SHEET

5 November 1945

The Records and boat sheet for Survey No. DE-025145 **7077**
are approved.

The Records were examined in the field at the time
of the survey. The Chief of Party was in charge of the
launch on the survey.

The survey is considered complete and adequate. The
descriptive report covers all pertinent details.



L. C. Wilder,
Chief of Party.

H-7077

DE 025145

Kelliher Cove, Attu Island

Seattle Processing Office Notes

The report by the field party has covered the sheet well.

From the manner in which the rocks at the head of Kelliher Cove were examined first and from notes on the boat sheets, it is presumed that the approach to the short gravel and sand beach at the head of the cove is important for small boat landings. The approach to the beach between boulders is about 25 meters wide and this has been noted on the smooth sheet.

Respectfully submitted,

Edgar E. Smith
Capt. Engineer
Seattle Processing Office

H-7077

Kelliher Cove, Attu I.

Geographic Names Pencil'd on the Smooth Sheet

Attu Island

Kelliher Cove

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ...H7077

Records accompanying survey:

Boat sheets ¹....; sounding vols. 1....; wire drag vols.;
bomb vols.; graphic recorder rolls ¹....;
special reports, etc.
.....

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

Number of positions on sheet	.....	130
Number of positions checked	.....	18
Number of positions revised	.....	1
Number of soundings revised (refers to depth only)	.....	0
Number of soundings erroneously spaced	.....	0
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	.....4
Junctions	Time	.....0
Verification of soundings from graphic record	Time	.....1

Verification by.....Roy E. Elkins.....Total time .36.... Date 5-28-46.

Reviewed by.....*J. F. Jordan*..... Time .4.... Date 5-28-46.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7077

FIELD NO. DE-025145

Alaska, Aleutian Islands, Attu Island, Kelliher Cove
Surveyed in July, 1945 Scale 1:2,500
Project No. CS-218

Soundings:

808A Fathometer
Hand lead

Control:

Three-point fixes on shore
signals

Chief of Party - L. C. Wilder
Surveyed by - L. C. Wilder
Protracted by - M. T. Gwinn
Soundings plotted by - M. T. Gwinn
Verified and inked by - R. E. Elkins
Reviewed by - G. F. Jordan, May 28, 1946
Inspected by - H. W. Murray

1. Shoreline and Control

Shoreline and control originate with plane table survey
T-7005a (1945).

Air photos of this area have not been field inspected.

2. Sounding-line Crossings

There are no crosslines on this survey.

3. Depth Curves and Bottom Configuration

Depth curves could be satisfactorily drawn.

This small cove has a generally smooth bottom extending
inshore to within 150 meters of the high water line. The
inshore area is foul with kelp, submerged ledge and
boulders. A small sand and gravel beach at the head of
the cove was of value to the armed forces in their land-
ing of cargo.

4. Junctions

Junctions with H-6875 (1945) will be considered when that survey is verified.

5. Prior Surveys

There are no prior surveys in this area.

6. Comparison with Chart 9127 (Latest print date April 28, 1945)

No hydrographic detail is charted in this cove.

7. Condition of Survey

a. The sounding record and descriptive report are complete in all detail.

b. The smooth plotting was very good. However, considerable correction of transferred detail from the plane-table survey was necessary.


8. Compliance with Project Instructions

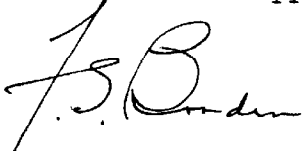
Satisfactory.

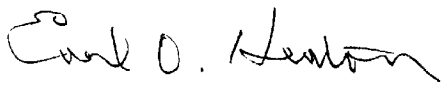
9. Additional Work Recommended

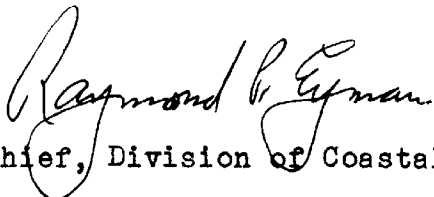
No additional work is recommended for this basic survey.

Examined and approved:


Chief, Nautical Chart Branch


Chief, Chart Division


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

GEOGRAPHIC NAMES

Survey No. **H7077**

Name on Survey												
	A	B	C	D	E	F	G	H	K			
<u>Attu Island</u>											USGB	1
<u>Kelliber Cove</u>						525730E						2
												3
												4
												5
												6
<u>Chichagof Harbor</u>												7
												8
												9
												10
												11
												12
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												25
												26
												27

Names underlined in red approved
by L. HECK on 5/28/46

location of tide staff

7km

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 22, 1946

~~Division of Hydrography and Topography:~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
1 volume of sounding records for


HYDROGRAPHIC SHEET 7077

Locality Kelliher Cove, Attu Island, Alaska

Chief of Party: L. C. Wilder in 1945
Plane of reference is mean lower low water, reading
3.3 ft. on tide staff at Chichigof Harbor
12.8 ft. below B. M. 1

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

Condition of records satisfactory except as noted below:


Chief, Division of Tides and Currents.

