

# 6910

Additional work

# 6910

Additional work

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
<b>DESCRIPTIVE REPORT</b>	
Type of Survey .....	Hydrographic
Field No. <del>1142</del> & 1143 .....	Office No. H-6910 Additional Work
LOCALITY	
State .....	Alaska
General locality .....	Aleutian Islands
Locality .....	Kuluk Bay, Adak Island
1944	
CHIEF OF PARTY	
Charles Pierce <del>PATTON</del>	R. D. Horne <del>EXPLORES</del>
LIBRARY & ARCHIVES	
DATE .....	DEC 28 1944

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H 6910  
ADDITIONAL WORK 1944

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. 1144K and 1143

REGISTER NO. H-6910 - Additional work

State Alaska

General locality Adak Island, Aleutian Islands

Locality Kuluk Bay

Scale 1:10,000 Date of survey Oct. 14 Aug. 1 & 2, 1944 PATTON EXPLORER

Vessel PATTON EXPLORER

Chief of Party Charles Pierce R. D. Herne

Surveyed by Charles Pierce F. B. Quinn

Protracted by W. M. Martin

Soundings penciled by W. M. Martin

Soundings in fathoms ~~xxxx~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by H. W. Burgoyne

Verified by H. W. B.

PATTON Instructions dated Feb. 1st and July 27th, 1944

Remarks: EXPLORER's Instructions June 1, 1944 - Director's letter, 22/MEK, 1990, to Lt. Comdr. Casper M. Durgin, for additional field work, Project OS-218.

Plotting by the Seattle Processing Office.

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. 1144 K

REGISTER NO.

State Alaska

General locality Adak Island, Aleutian Islands

Locality Kuluk Bay

Scale 1:10,000 Date of survey Aug. 1 & 2, 1944

Vessel PATTON

Chief of Party Charles Pierce

Surveyed by Charles Pierce

Protracted by

Soundings penciled by

Soundings in fathoms feet

Plane of reference

Subdivision of wire dragged areas by

Inked by Herbert W. Burgayne

Verified by Herbert W. Burgayne

Instructions dated Feb. 1st and July 27th, 1944

Remarks: Recommended that this work be plotted on EXPLORER'S  
1943 sheet of KULUK BAY

REG. NO. H 5970 Additional work 1944

DESCRIPTIVE REPORT  
to accompany  
HYDROGRAPHIC SURVEY H 6910, FIELD NO. 1144K

ADAK ISLAND -- KULUK BAY

1944

USC&GSMV PATTON

Scale -- 1:10,000

Charles Pierce, Comdg.

PROJECT: CS-218, Instructions dated February 1, 1944.  
CMD-15, Instructions dated July 27, 1944.

SURVEY LIMITS & DATES: This survey covers approaches to Kuluk Bay Fuel Unloading Dock for a distance of approximately one-half mile. All work is in the immediate vicinity of the dock and supplements the EXPLORER'S 1943 sounding and wire-drag in the area. It was planned to complete this job by executing a tag-line survey about the dock, orders to return to the Tanaga Bay area prevented the completion. ✓

This work was executed by the PATTON on August 1st and 2nd while detailed to Adak on special Navy requests. ✓

VESSEL & EQUIPMENT: The PATTON was used for all hydrography except a few handlead soundings along the face of the dock. Dorsey III fathometer No. 35 was used for the soundings, 808A No. 47 was run concurrently as an additional check. Both instruments were set by handlead comparison for this work. ✓

TIDES: The standard gage established at Sweeper Cove, Adak Island was in operation during this survey. ✓

SMOOTH SHEET: It is recommended that this work be forwarded to Washington Office to be plotted on the EXPLORER'S sheet of the Kuluk Bay area. After the addition of this work, a print of the EXPLORER'S sheet should be requested for use of the Officer detailed to duty with COM 17. ✓

CONTROL: Basic control for this sheet was furnished by the Navy triangulation of 1934, the EXPLORER'S of 1943 and that of the USED scheme of 1944. The EXPLORER'S topographic station HIE 1943 was also used. Previous triangulation was converted to the Unalaska Datum, using the two published adjusted positions of ZETO compared with the Navy position. The datum correction furnished by Lt. Comdr. Durgin was also used. For converting Adak Navy Datum to Unalaska Datum apply the following differences in meters; Latitude plus 307.5m, Longitude minus 323.8m. A three point fix, using a 7 inch repeater, was taken on the deck to establish station OIL 1944 and the azimuth of the deck. A traverse tie was made from this station to locate signal MAX. ✓

SOUNDINGS: Soundings were taken with Dorsey III No. 35, the 808A No. 47 being run concurrently as an additional check. ✓

HYDROGRAPHIC CONTROL: Standard three point visual fix methods ✓  
were used on this sheet.

ADEQUACY: This survey supplements the EXPLORER'S 1943 work. ✓  
The tag-line work close to the deck was not completed.

SHORELINE & TOPOGRAPHY: No topography was executed. The dock  
was taped and its position and azimuth determined for charting. ✓  
A scale drawing is submitted on an accompany sheet.  
Dock transferred to smooth sheet; scale drawing discarded.

CROSS LINES: The agreement of cross line is good. The percentage ✓  
completed is 9%.

AIDS TO NAVIGATION: Three Navy mooring buoys and one (nun) approach ✓  
buoy near the fuel dock were located.

VELOCITY CORRECTIONS: Determined from serial temperatures taken in  
Tanaga Bay Area July 2, 1944. Corrections determined by graphic method. ✓

Depth in fathoms	Corrections in feet
0 -- 5 - - - - -	-(0)
5 -- 12 $\frac{1}{2}$ - - - - -	(-1)
12 $\frac{1}{2}$ -- 19 $\frac{1}{2}$ - - - - -	(-2)

*Max G. Ricketts*  
Max G. Ricketts  
Lt. Comdr., USC&GS

Approved and forwarded:

*Charles Pierce*

Charles Pierce  
Lt. Comdr., USC&GS  
Commanding PATTON

STATISTICS  
Field No. 1144K, KULUK BAY

Date	Vel.	Day	HL Sdgs	Positions	Statute Miles
Aug 1	1	A	21	92	14.6
" 2	1	B		7	0.4
Totals	-----		21	99	15.0

TIDAL NOTE: Sweeper Cove, Adak Island standard gage was used for the reduction of soundings.

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. 1143 (EXPLORER - 1943)

REGISTER NO. 6910

State Alaska

General locality Aleutian Islands

Locality Kuluk Bay, Adak Island

Scale 1:10,000 Date of survey October 14, 1944

Vessel Launch No. 1 (EXPLORER)

Chief of Party Lieut. Comdr. Roland D. Horne

Surveyed by F. B. Quinn

Protracted by

Soundings penciled by

Soundings in fathoms ~~feet~~

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by H. W. Bergayn

Verified by H. W. B

Instructions dated June 1, 1944

Remarks: Director's letter, 22/MEK, 1990, to Lieut. Comdr. Casper M. Durgin for Additional Field Work - project CS-218.

SUPPLEMENTARY DESCRIPTIVE REPORT TO ACCOMPANY SHEET 1143  
(REGISTRY NO. 6910)

Date of Instructions for Supplementary Work:

June 1, 1944, Director's letter, 22/MEK, 1990, to Lieut. ✓  
Comdr. Casper M. Durgin, for Additional field work - project CS-218.

Survey Methods:

Standard survey methods were used in the additional development on this sheet. U. S. Navy triangulation stations established in 1934 on the Gannet Datum, and topographic signals established by the EXPLORER in 1943, were recovered and used for control of the sounding in 1944. ✓

The 808 depth recorder in Launch No. 1 was used to obtain the soundings, and handlead inspection was made at the Zeto Point reported shoal spot. See Discrepancies, below.

The sounding lines were run both parallel and normal to the axes ✓  
of the shoals.

Comparison with Previous Surveys:

Excellent agreement was obtained with the ~~accomplishment~~ soundings taken on the same sheet in 1943 by the EXPLORER party. No complete hydro- ✓  
graphic survey of this area has been made by the Bureau other than the Wire Drag survey of the EXPLORER in 1943.

Discrepancies:

There are no discrepancies noted in this survey. ✓

The shoal depth of  $5\frac{3}{4}$  fathoms, <sup>shown on one print of Chart 9141</sup> reported at Zeto Point was found to be nonexistent. An anchor chain for a mooring buoy gave a reflection ✓ 83  
of  $5\frac{1}{4}$  fathoms, but there was also an 11-fathom echo at the same point which

was checked by a leadline touching the anchor chain. Fine grey sand was found at this location. The  $5\frac{3}{4}$  appeared in pencil on original smooth sheet and was added to the chart before verification. It was removed when verification showed the correct depth to be  $10\frac{1}{4}$  fathoms.

Sono Buoy No. 2, shown on the 1943 boat sheet, was no longer on location at the time of this survey, and was so noted at position 5a (blue) ✓

in the sounding record for this survey on October 14, 1944. Sono buoys located in 1943 never were inked on the smooth sheet as they evidently were temporary detection devices used only by the Navy.



Two rocks shown on the 1943 boat sheet at Lat. 51°54.48'N, Long. 176°33.38'W, ~~were taken from air photos~~ and are non-existent, but there are two mooring buoys in the approximate location. These were not located by sextant fixes because of the lack of control signals.

Shoreline on boat sheet was approximate. No record of any rocks in this vicinity nor are any charted.

Dangers:

Attention is invited to the following:

The 1 1/2-fathom, 1 5/6-fathom and 2 2/6-fathom spots indicated on the boat sheet at the southwest portion of the long shoal area 1 1/2 miles east-northeast of Zeto Point. <sup>1 1/2, 1 5/6 and 2 2/6</sup> all obtained in 1943. Corroborated by 2 1/6 in 1944.

The 2 5/6-fathom ~~and 1 5/6-fathom~~ spots near the center of the same shoal. The 2 5/6 was questioned in the original review in view of 30 min. hand lead sounding with least depth of 6 1/2. Least depth in 1944 was 6 1/2 but as neither the 1943 nor 1944 parties recommend rejection of the 2 5/6, it is being retained.

The 6 5/6-fathom, 8-fathom, 8 3/4-fathom, and two 9 1/4-fathom spots at the northeast portion of the same shoal. See smooth sheet for final depths and clearer picture.

The shoalest depth recorded 1/2 mile north of Gannet Rock is 8 fathoms. This shoal was covered with an effective depth of 40 feet in the 1943 wire drag work of the EXPLORER. It falls within the anchorage area used by the Navy. Chart Letter 524 (1944) reported shoal with 10 fathoms or less at this point. Origin - H.O. This shoal was not covered by the 1943 drag. See H-6911 (1943) W.D.

Statistics:

Number of positions- - - - - 184

Number of statute miles of sounding lines- - - - - 27.4

Tidal Note:

A standard automatic Coast and Geodetic Survey tide gage was in operation at Sweeper Cove, Adak, and tended by the Navy, at the time of this survey.

Respectfully submitted,

*Francis B. Quinn*  
Francis B. Quinn, Lt. Comdr., C&GS

Approved and Forwarded

*Roland D. Horne*  
Roland D. Horne, Comdg. Ship EXPLORER

H-6910

Additional Signals - 1944 work

PAL	USN 1943 (M.C.B.)	51° 54' 176 35	1164.1 meters 862.2 "
MAX	1944	4th order triangulation	Charles Pierce
OIL	1944	3d order triangulation	Charles Pierce

H-6910

Tidal Note

Kuluk Bay - Adak Island

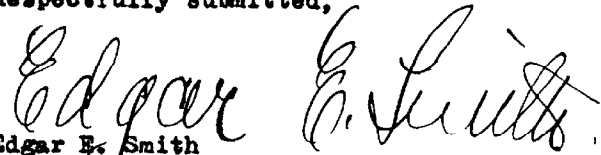
Additional work by the EXPLORER and  
PATTON in 1944.

Sweeper Cove - Standard automatic gage, operated  
by U.S.N.

Latitude 51° 51.1

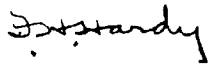
Longitude 176 37.5

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Edgar E. Smith".

Edgar E. Smith  
Cartographic Engineer  
Seattle Processing Office

Approved and Forwarded,

A handwritten signature in cursive script, appearing to read "F. H. Hardy".

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

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~409~~ Additional work - 1944

Records accompanying survey:

Boat sheets .1...; sounding vols. ..2.; 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	.283.
Number of positions checked	.47..
Number of positions revised	..1..
Number of soundings recorded	1400. Approx
Number of soundings revised (refers to depth only)	..7..
Number of soundings erroneously spaced	..8..
Number of signals erroneously plotted or transferred	..9..
Topographic details	Time ...2.
Junctions	Time ..2..
Verification of soundings from graphic record	Time ..20.

Verification by *Herbert W. Burgoyne*. Total time .72.. Date 3/17/45.

Review by *J.A. Mc Cormick*..... Time 10 hrs. Date 4/25/45

GEOGRAPHIC NAMES

Survey No.

**Additional work - 1944**

Name on Survey

	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
										1
										2
										3
										4
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										27

Rac  
MC

Form 712  
DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY  
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 13, 1945.

~~Division of Hydrography and Topography~~

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

Plane of reference approved in  
2 volumes of sounding records for (Additional work)

HYDROGRAPHIC SHEET 6910

Locality Adak Island, Aleutian Islands, Alaska

Chief of Party: Chas. Pierce in 1944  
Plane of reference is mean lower low water reading  
3.0 ft. on tide staff at Sweeper Cove  
7.0 ft. below B. M. 1

Height of mean high water above plane of reference is 3.4 feet.

Condition of records satisfactory except as noted below:

*H. A. Marmel*  
Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6910 Add'l Work

Field No. 1143

Alutian Islands; Adak Island; Kuluk Bay  
Surveyed in Aug. - Oct., 1944, Scale 1:10,000  
CS - 218

Soundings:

Hand lead  
808 Fathometer  
Dorsey Fathometer

Control:

Three-point fix on shore signals

Chief of Party - R. D. Horne; C. Pierce  
Surveyed by - F. B. Quinn; C. Pierce  
Protracted by - W. M. Martin  
Soundings plotted by - W. M. Martin  
Verified and inked by - H. W. Burgoyne  
Reviewed by - J. A. McCormick  
Inspected by - H. W. Murray, April 25, 1945.

Review of the original survey invited attention to a questionable 2 5/6 fathom Recorder depth in lat. 51° 54.95', long. 176° 31.60'. Additional lines in 1944 over the 2 5/6 disclosed nothing shoaler than 6 1/6 fathoms but because neither the 1943 nor the 1944 field parties recommended rejection of the 2 5/6 it has been retained. Other 1944 lines in the vicinity show depths in some cases shoaler by several feet than those obtained in 1943. *Instructed 1945*

The 5 3/4 fathom sounding investigated in lat. 51° 54.37', long. 176° 33.00' appeared neither on the boat sheet nor the finished smooth sheet of the original survey. It was penciled on the smooth sheet in Seattle as the result of an error in scanning a 10 3/4 fathom depth and was shown on one print of Chart 9141 before review of the survey caused it to be removed.

A depth of 8 fathoms was found in lat. 51° 52.6', long. 176° 36.4' on investigating a report (Chart Letter 524 of 1944) that a shoal with 10 fathoms or less existed in this vicinity. This immediate area had not been sounded previously by this Bureau nor had it been dragged to 40 feet in 1943 as stated in the Descriptive Report. Drag coverage would be desirable. *Instructed 1945*

An oil dock constructed in lat. 51° 54.7', long. 176° 35.0' subsequent to the 1943 survey was located by the PATTON and additional sounding lines were run to develop the approaches. Depths obtained show uniformly sloping bottom.



Examined and Approved:

*Wm. Peice*

Chart Division

*J. Borden*

Chief, Chart Division

*Emil O. Heston*

Chief, Section of Hydrography

*Acting Raymond P. Egan*

Chief, Division of Coastal Surveys

applied to charts 9193 & 8863 before V. & R. S. M. A.

applied to chart 9141 after 27, 1945 G. H. S.  
after review

applied to Ch. 9119 after review - JTW 6/4/45

Examined for chart 8863 " " J. M. A. 10-1-45 no con'n.

Account 8863 - JTW 11/24/58

# 6910

# 6910

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	<u>Hydrographic</u>
Field No.	<u>1143</u>
Office No.	<u>H-6910</u>
LOCALITY	
State	<u>Alaska</u>
General locality	<u>Alutian Islands</u>
Locality	<u>Adak Island</u>
	<u>Kuluk Bay</u>
	<u>1943</u>
CHIEF OF PARTY	
	<u>G. C. Mattison</u>
	<u>EXPLORER</u>
LIBRARY & ARCHIVES	
DATE	.....

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H6910

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. 1145

REGISTER NO. H-6910

State Alaska

General locality Alutian Islands - Adak Island

Locality Kuluk Bay

Scale 1:10,000 Date of survey May - August, 1945

Vessel EXPLORER and PATTON

Chief of Party G. C. Mattison and C. D. Meaney

Surveyed by Ship's Officers

Protracted by W. M. Martin

Soundings penciled by W. M. Martin

Soundings in fathoms ~~feet~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by \_\_\_\_\_

Inked by \_\_\_\_\_

Verified by \_\_\_\_\_

Instructions dated April 16, 1945

Remarks: Smooth Sheet and Plotting by the

Seattle Processing Office.

NOTES REGARDING  
KULUK BAY ANCHORAGE SURVEY  
NEAR ENTRANCE TO CLAM LAGOON

On August 26, 1943, in compliance with verbal orders from ComAlSec, Adak Island, Alaska, through the liaison officer, Lt. Comdr. C. M. Durgin, the PATTON executed an exploratory hydrographic survey for a proposed destroyer anchorage, in Kuluk Bay, near the entrance to Clam Lagoon.

An 808A fathometer mounted in a Navy motor whaleboat was used for this survey.

The anchorage was found to be too shoal for destroyers.

This information was furnished to the Commander, Alaska Sector, on an anchorage print.

Tide reducers were based on readings tabulated from the tide staff of Sweeper Cove, Adak Island, Alaska. The reading 3.1 is mean lower low water on this staff.

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The notes above were prepared by the party of the M.V. PATTON and refer to the soundings south of the mouth of Clam Lagoon, where the position numbers are in blue. The overlapping work is by the EXPLORER's launches. The PATTON's boat sheet is on the scale of 1:4,800.

H-6910

Field No. 1143

Aleutian Islands, Adak Id.

Kuluk Bay

Seattle Processing Office Notes

This sheet was surveyed by the parties of the EXPLORER and the PATTON on instructions from the Liaison Officer at Adak. About 90% of the work is by the EXPLORER. ✓

The survey between Sweeper Cove and Zeto Point extends from shore to a junction with wire drag sheet H-6911, <sup>(1943)</sup> and was made to assure safe swinging room and maneuvering space about the mooring buoys in Kuluk Bay. ✓

Surveying methods are standard - visual fixes - soundings by recording fathometer. ✓

The EXPLORER's boat sheet is on U.S. Navy datum. The smooth sheet is on Unalaska datum with the Navy datum indicated. ✓

Signals are from triangulation by the Navy-1933 and 1943, and by C. & G. S. 1943. All topographic signals are from T-6930 of 1943. Cuts to local hydrographic signals are indexed in the sounding record. ✓

Shore line is enlarged from the 1:20,000 scale topographic plate T-6930<sub>a</sub> <sup>(1943)</sup>

Tide reducers are from the Sweeper Cove gage. ✓

Note the following soundings:

<u>Lat. &amp; Long.</u>	<u>Position</u>	<u>Fathoms</u>
51° 53.30 176 37.03	116 c	<del>Zero sounding</del> Rock awash at L.W. ✓
51 54.37 176 33.00	44 - 45 a	5 5/6 Error of 5 fms. in scanning. Correct depth is 10 3/4 fms.
51 54.86 176 31.81	152 a	1 2/6 ✓

<u>Lat. &amp; Long.</u>	<u>Position</u>	<u>Fathoms</u>
51 54.95	34 - 35 b	2 5/6 ✓
176 31.49 60		83
51 54.76	90 - 91 a	6 2/6 ✓
176 31.84		

Statistics:

Miles of Sounding Line	95.4
Positions	601
Area - Sq. Stat. Mi.	2.5

*Edgar E. Smith*  
 Edgar E. Smith  
 Assoc. Cartographic Engineer  
 Seattle Processing Office.

Approved and Forwarded:

*F. H. Hardy*

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

H-6910

LIST OF SIGNALS

Triangulation

Cog 1943 (USN)  
Fin 1943 (USN)  
Had-Head 1933 (USN)  
Pit 1933 (USN)  
Rev 1933 (USN)  
San 1933 (USN)  
Tri 1943 (USN)  
Zeto 1933 (USN)

Topographic - T-6920

Abe	Nie (Palisade)	Tuf
Air	Jac	
Bee	Les	
Bot	<u>Nashville</u>	
Cur	<u>Out</u>	
Ear	Pin	
Ed	Tow	
Gen	Tri	

Hydrographic

Nic  
Pole  
Or  
Red



**TIDAL NOTE**

**H-6910 (Field No. 1143)**

Alutian Islands - Adak Island

Kuluk Bay

Surveyed by parties on EXPLORER and PATTON; G. C. Mattison and  
G. D. Meaney, Chiefs of Party.

1943

Sweeper Cove

Portable Automatic Gage

Latitude 51° 51.11

Longitude 176 57.47

Staff reading of MLLW 3.1 feet

See Director's letter, December 24, 1943, 36-MLH.

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		515765 056.B
4		" "
5		" "
6		515765 " "
7	Also location of tide staff	515765 "
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GEOGRAPHIC NAMES

Survey No. **H6910**

Name on Survey	Source										
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Aleutian Islands</u>											2
<u>Adak Island</u>											3
<u>Kuluk Bay</u>											4
<u>Clam Lagoon</u>											5
<u>Zeto Point</u>											6
<u>Sweeper Cove</u>											7
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											27

names underlined in this report  
by L. Heck on 4/18/44

Surveys Section (Chart Division)

H6910  
HYDROGRAPHIC SURVEY NO. ....

Records accompanying survey:

Boat sheets ..<sup>2</sup>..; sounding vols. ..<sup>4</sup>..; wire drag vols. ....;  
bomb vols. ....; graphic recorder rolls ..<sup>1</sup>...;  
special reports, etc. ....  
.....

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

Number of positions on sheet	..601.
Number of positions checked	..37.
Number of positions revised	....0.
Number of soundings recorded	5000 (approx) .....
Number of soundings revised (refers to depth only)	...19.
Number of soundings erroneously spaced	....7.
Number of signals erroneously plotted or transferred	....0.
Topographic details	Time ....1.
Junctions	Time ....2.
Verification of soundings from graphic record	Time ....3.

Verification by J.A. M<sup>c</sup>Cormick.. Total time .35 hrs. Date 4/5/44.

Review by ...J.A. M<sup>c</sup>Cormick..... Time .10 hrs. Date 4/7/44.

see  
HLL

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 13, 1944.

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in  
4 volumes of sounding records for

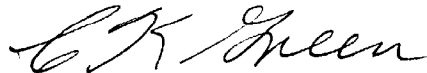
HYDROGRAPHIC SHEET 6910

Locality Kuluk Bay, Adak Island, Aleutian Islands, Alaska

Chief of Party: G. C. Mattison and C. D. Meaney in 1943  
Plane of reference is mean lower low water reading  
3.1ft. on tide staff at Sweeper Cove  
6.9ft. below B. M. 1

Height of mean high water above plane of reference is 3.4 ft.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

DIVISION OF CHARTS

REVIEW SECTION - SURVEYS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6910

Field No. 1143

Aleutian Islands; Adak Island; Kuluk Bay  
Surveyed May - August 1943; Scale 1:10,000  
Project C. S. 218

Soundings:

Hand lead  
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - G. C. Mattison; C. D. Meaney  
Surveyed by - Officers of EXPLORER and PATTON  
Protracted by - W. M. Martin  
Soundings plotted by - W. M. Martin  
Verified and inked by - J. A. McCormick  
Reviewed by - J. A. McCormick  
Inspected by - H. R. Edmonston, April 6, 1944

1. Shoreline and Signals

Shoreline and topographic signals are from T-6930a (1943). Cuts used in locating hydrographic signals are recorded in the sounding volumes.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

The overlap with H-6915 (1943) on the southwest shows satisfactory agreement of depths. The descriptive report mentions a wire drag survey, H-6911 (1943), as adjoining on the east between Zeto Point and Sweeper Cove but no hydrographic surveys were made in the immediate vicinity in 1943.

5. Previous Surveys

H-6889 (1933), 1:15,000

This is a Navy survey executed along broader lines than the surveys of this Bureau but showing the principal dangers in the area with a fair degree of accuracy.

Two soundings of 8 fathoms (charted) in Lat.  $51^{\circ}54.7'$ , Long.  $176^{\circ}31.7'$  on H-6889 can be disregarded in view of the closely spaced depths of 15 to 17 fathoms on the present survey. The 8's appear to have been added to H-6889, possibly as the result of additional work, and are in similar disagreement with original depths on that survey.

A  $2\text{-}5/6$  fathom Recorder depth in Lat.  $51^{\circ}54.95'$ , Long.  $176^{\circ}31.60'$  on the present survey was investigated for 30 minutes with the hand lead. Least depth obtained was  $6\text{-}2/6$  fathoms as compared with 7 fathoms on H-6889. The  $2\text{-}5/6$  is retained but considered questionable. Its importance is minimized by the  $1\text{-}2/6$ -fathom shoal 300 meters southwest on the present survey ( $2\text{-}1/2$  fathoms on H-6889).

There is nothing in this office to indicate what type of sounding apparatus was used on H-6889. Differences between the two surveys often approach 20% outside the 10-fathom curve and from the number of bottom characteristics on H-6889 it appears probable that the soundings on that survey at least were not sonic. In the several small areas actually covered by the present survey, depths on H-6889 can be considered superseded.

6. Comparison with Chart 9119 (Print of Dec. 10, 1943)  
Chart 9141 (Print of November 1943)

Depths within the small area overlapped by chart 9119 are from B.P. 37361, a field compilation which includes preliminary depths from boat sheets of the present survey. Only the shoalest soundings have been added to chart 9141. Both charts should be revised to agree with the smooth sheet.

Survey positions of the can buoy in Lat.  $51^{\circ}53'$ , Long.  $176^{\circ}37'$  and the mooring buoys to the northeast are in fair agreement with the positions charted. Of the four beacons charted between Zeto Point and

Sweeper Cove, two were identified on the survey by topographic descriptions. The other two undoubtedly are at Triangulation Stations Zeto (Lat.  $51^{\circ}54.6'$ , Long.  $176^{\circ}33.6'$ ) and San (Lat.  $51^{\circ}52.2'$ , Long.  $176^{\circ}37.6'$ ) but there is no mention of them in the descriptions.

7. Compliance with Project Instructions

Satisfactory.

8. Additional Field Work Recommended

This is not a continuous survey but a series of investigations made at the request of the Navy. If a standard survey is to be made, inshore lines and split lines will be needed in addition to connecting up the separate areas. Attention is also invited to the questionable 2-5/6 fathom depth (par. 5) and to soundings of 8-1/4 and 9-1/4 fathoms in Lat.  $51^{\circ}55.0'$ , Long.  $176^{\circ}31.3'$ .

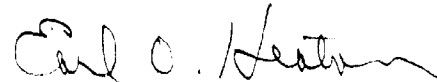
Examined and approved:



Chief, Surveys Branch



Chief, Division of Charts



Chief, Section of Hydrography



Chief, Division of  
Coastal Surveys



Applied to chart 9119. June 28, 1944. L.A.M.

" " " 8863 Oct. 27, 1944 J.M.A.  
" " " 8863 Record 11/26/58 - JFW