

7078

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Diag'd. on Diag. Ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PA-1145 Office No. H-7078

LOCALITY

State Alaska-Aleutian Islands

General locality Adak Island

Locality Kuluk Bay

1945

CHIEF OF PARTY

R. F. A. Studds

LIBRARY & ARCHIVES

DATE April 18, 1946

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO.

H7078

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 Pa 1145

REGISTER NO. H-7078

State Alaska - Aleutian Islands

General locality Aleutian Islands

Locality Kuluk Bay, Adak Island

Scale 1:10,000 Date of survey 21 Aug. to 18 Sept. 1945

Vessel Ship PATTON ✓

Chief of Party R. F. A. Studds ✓

Surveyed by R.F.A. Studds and S.B. Grenell ✓

Protracted by Christine N. Hillman ✓

Soundings penciled by Christine N. Hillman ✓

Soundings in fathoms <sup>AND TENTHS</sup> ~~feet~~ by Graphic Recorder ✓

Plane of reference MLLW ✓

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

Inked by C.P. Reed

Verified by C.P. Reed

Instructions dated Liaison Officer, 30 April, 1945

Remarks: Smooth Sheet and Plotting by the

Seattle Processing Office

# 7078

## DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY - FIELD NO. ~~11145~~ 11145

Ship PATTON - 1945

Scale 1:10,000  
Unalaska Datum

R. F. A. Studds  
Commanding

PROJECT: Original project CS-218; additional Instructions from the Liaison Officer, Project 23, dated 30 April 1945.

SURVEY LIMITS AND DATES: Adak Island, Kuluk Bay, from 21 August to 18 September 1945. The general area extends from the approaches to Sweeper Cove northward to include all of the bay and approaches to Head Rock and eastward to Longitude 176° 30'. See attached Index Sheet for area covered by survey and sheets adjoining. Sheet H-6910, which covered a portion of this area, was used for scattered development only. Since it was desirable to extend the area eastward, a new sheet was laid out and junctions made with the hydrography executed on H-6910.

VESSELS AND EQUIPMENT: All of the inshore and other shoal areas were sounded with the 808 type recorder mounted in a launch borrowed from the Navy. The deeper areas were sounded by the Ship PATTON using the Dorsey III recorder supplemented by the ship-mounted 808 recorder which operated simultaneously. No unusual methods or equipment were used.

TIDE AND CURRENT STATIONS: Tide reducers were taken directly from the rolls of the standard gage at Sweeper Cove, without time or range correction. There were no current stations occupied.

CONTROL STATIONS: The triangulation control for this area was from various sources: U. S. Navy, Coast Survey 1943, 1944 and 1945, all of which had been adjusted to the Unalaska Datum. The topographic control points were from sheets executed by the Ship EXPLORER in 1943 and from Sheet PA-C-1945, Ship PATTON, R. F. A. Studds, Chief of Party. Some of the points originally located in 1943 and 1944 were relocated on Topographic Sheet PA-C-1945 and should be transferred from that sheet for smooth hydrographic sheet location. \* T-6930a (1943)

SHORELINE AND TOPOGRAPHY: Topographic Sheet PA-C-1945 covers the west and north sides of Kuluk Bay, Zeto Point and the shoreline northward to the latitude of Head Rock. The shoreline along the west side of Kuluk Bay was re-run on this sheet to correct for construction changes made since 1943. The balance of the sheet was used for the location of signals only since the shoreline is unchanged. This area is covered in part by Sheet T-6930-A, which is now at the Seattle Processing Office. See descriptive report for Topographic Sheet PA-C-1945 for details on revision of shoreline, changes and junctions with former surveys.

The low water line is not defined by soundings on this sheet as the beach is either steep-to, ledge formation or flat sand as in the bights and bays. In these latter areas the low tide range prevented determination of low water line with the hydrographic launch.

SOUNDINGS: All soundings, both ship and launch, were made with the fathometers except for a few vertical casts by the ship for bottom characteristics. The standard tide and velocity corrections only were made. There were no unusual methods or equipment used.

CONTROL OF HYDROGRAPHY: All sounding lines were controlled by the standard three point fix with sextant angles to signals located by triangulation or planetable.

ADEQUACY OF SURVEY: The area covered by this sheet is completely sounded. There were several small areas previously sounded on Sheet H-6910 which were not re-sounded on this survey, but checked junctions were made with the previous work and in some cases additional lines were run for development of shoal indications. All junctions with adjacent surveys are complete and the depth curves check across the junctions.

CROSSLINES: Approximately ten per cent of crosslines were run counting all development and lines run through previous work on Sheet H-6910. The boat sheet reduction indicates that all of these crossings are in agreement within one sounding unit used for that particular depth. Most of the crossings check exactly.

COMPARISON WITH PRIOR SURVEYS: The entire area of this survey was previously sounded by the U. S. Navy. These Navy soundings are widely spaced and apparently not too well controlled as there are wide variations in depth curve location between the two surveys. The variation is especially noticeable on the 20 fathom curve east and south of Kuluk Shoal where the variation in depth is three to four fathoms and the horizontal displacement as much as 400 meters. A study of the completed smooth sheet should be made to bring out fully this discrepancy. The agreement between our surveys made on H-6910 and this sheet is excellent.

COMPARISON WITH CHART: Since the charted soundings are mainly from the U. S. Navy survey, the chart should be corrected to agree with the later surveys. (Note discussion in foregoing paragraph). It is recommended that a report on this comparison be made after the smooth sheet is completely plotted.

DANGERS AND SHOALS: Except for rocks and shoals close to the main shoreline or around the offlying islets, there is only one important danger, Kuluk Shoal. This shoal was fully developed on H-6910 and was not reinvestigated on this survey. The shifting sand shoal at the mouth of Clam Lagoon has been outlined in ink on the boat sheet as sketched in by the hydrographer. Due to the fact that the "fish" projected below the keel of the sounding launch, it was inadvisable to attempt to sound in this area. The "humping" of a slight ground swell  
\*retained in field

mud flats on sheet

indicated that the entire area shown was very shoal. The channel leading to Clam Lagoon, as indicated on the boat sheet, is very shoal and continually shifting as per information received from local boat operators.

COAST PILOT INFORMATION: A separate report on this subject is being submitted.

AIDS TO NAVIGATION: There is only one aid to navigation on the sheet. It is the buoy marking ~~Sosbee~~<sup>Viper Shoal</sup> Shoal; see launch Vol. II, Position 98d for position.

LANDMARKS FOR CHARTS: A separate report is being submitted.

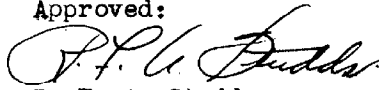
GEOGRAPHIC NAMES: A separate report is being submitted.<sup>814</sup>  
One new name applies to the area of this survey; ~~Sosbee~~<sup>Viper Shoal</sup> Shoal, which is the previously unnamed rock awash in Lat. 51° 53.28', Long. 176° 37.10'.

TABULATION OF APPLICABLE DATA:

REPORTS:	Triangulation	R. F. A. Studds 1945
	Coast Pilot Information	do
	Landmarks for Charts	do
	Geographic Names	do

Respectfully submitted,

Approved:



R. F. A. Studds  
Cmdg., Ship PATTON



S. B. Grenell  
Lieut. Comdr., C&GS

7078

STATISTICS FOR HYDROGRAPHIC SHEET 1145

SHIP PATTON; PROJECT 218, SUPPLEMENTAL 23

Vol.	Day	Date	Soundings	Positions	Miles, Stat.	Vessel
I	a	24 Aug.		153	30.6	Launch
	b	25 "		163	24.8	Launch
II	c	11 Sept.		103	11.8	Launch
	d	13 "		98	16.1	Launch
Launch Totals:				<u>517</u>	<u>86.3</u>	
III	A	21 Aug.		133	34.3	PATTON
	B	31 Aug.	1	105	31.6	PATTON
	C	3 Sept.		64	19.0	PATTON
IV	C	3 Sept.		47	15.1	PATTON
	D	6 Sept.		40	12.5	PATTON
	E	10 Sept.		174	52.5	PATTON
V	F	14 Sept.		28	6.6	PATTON
	F	14 Sept.		107	28.2	PATTON
	G	18 Sept.	1	<u>5</u>	<u>0.6</u>	PATTON
Ship Totals: 2				703	200.4	
Grand Totals: 2				1220	286.7	

Area Sq. Stat. Mi: 10.1

7078

5

TIDE NOTE - SHEET 1145

The tide reducers for this survey were taken from the record of the standard gage at Sweeper Cove, Adak Island. The value of MLLW on the staff was 3.1 feet. No correction for either time or range was made for any part of the survey.

VELOCITY CORRECTION ABSTRACT

An abstract of velocity corrections has been made from the data listed in the Report of Velocity Corrections and a copy of the abstract of reducers applicable to the survey is pasted inside the front cover of Sounding Vol. No. I.

7078

APPROVAL SHEET

The records and the boat sheet for Survey 1145

are approved.

The records were examined frequently in the field, generally daily.

The Survey is considered complete and adequate. The descriptive report covers all pertinent detail.



R. F. A. Studds

Lieut. Comdr., C&GS

Commanding, Ship PATTON



Kuluk Bay - Adak Island

LIST OF FLOATING AIDS

Name	Latitude and Longitude				Method of Location	Date of Location	Hydro Sheet
	D.M. Meters	D.P. Meters					
Finger Shoal Buoy	51°51' 1252	176°34' 184			Sext. Fix	9/18/45	H-6915
	(Unalaska Datum)					Pos.# 1h	
Obstruction Buoy (wreck)	51 51 1573	176 37 307			"	9/11/45	H-6915
	(Unalaska Datum)					Pos.# 5f	
<i>Kippee</i> Buoy (Seabee Shoal)	51 53 510	176 36 1048			"	9/13/45	H-7078
	(Unalaska Datum)					Pos.# 98d	

Note: This list is being submitted as a memorandum only.  
All three buoys have been previously located and charted.)

S. B. Grenell

H-7078

PA 1145

Kuluk Bay - Adak I.

Seattle Processing Office Notes

Topographic Signals and Topography-

From T-6930a and T-7000a. Signal DIM is shown on T-7000a as a circle without supporting topographic feature. This fell a few meters southeast of the middle of three islets shown on T-6930a. The topographer of T-7000a said that the signal was near the central part of the central islet. The three islets were arbitrarily shifted to make the central islet surround the position of DIM as given on T-7000a.

Additional Soundings-

At the following places, additional soundings seem desirable:

Latitude	Longitude	
51° 52.16	176° 36.45	7.2
51 52.95	176 35.52	8 fms. developed on H-6910(1943-44)
51 52.53	176 33.58	28.5" -
51 52.82	176 30.43	32 -
51 54.98	176 32.48	46 -
51 52.83	176 33.39	32

*accomplished in 1946*

*1.2. erroneous*

The first item shows on the bathogram as a sharp pinnacle. It was not developed. There is over 20 fms. all around it.

Boat Sheet-

The boat sheet was returned to the field party for possible additional work during the 1946 season. (rec'd)

Comparison of H-7078 with H-6889 of USN-

Latitude	Longitude	H-7078	H-6889
51° 53' 15"	176° 33' 30"	fms.	fms.
53 32	33 32	46-47 ✓	52-56
53 46	33 32	34-35 ✓	39
54 23	33 30	18 ✓	20
52 28	32 57	6.3-6.5 ✓	18
52 45	32 26.56	47 ✓	59-60
53 15	32 27.57	54-56	59
52 33	32 32	51	59
53 35	32 45	56 ✓	62
53 50	32 45	42-38 ✓	54
53 58	32 28	19 ✓	28
54 30	32 30	18.5 ✓	24
53 57	31 57	14 ✓	18
		26 ✓	37

9

Latitude		Longitude		H-7078	H-6889
				fms.	fms.
51° 53' 50"	176° 31' 58"			36-39 ✓	55
53 40	31 39			57 ✓	70
52 56	31 03			46 ✓	60
54 28	31 00			24.5 ✓	29
54 45	31 00			18 ✓	25
54 47	30 54			16.5 ✓	25-27
55 30	31 03			21.5 ✓	19
53 50	36 25			5 ✓	7-7
53 36	36 00			20.5-22 ✓	26
53 12	36 00			35 ✓	40
52 36	36 00			43 ✓	46
52 56	35 30			28.5 ✓	40
53 30	35 30			30.5 ✓	35
52 58	35 05			42 ✓	46
52 30	35 30			39 ✓	45
52 35	35 00			41-42 ✓	53
52 47	34 30			46-47 ✓	52
52 58	34 30			40-41 ✓	46
53 28	34 32			31-34 ✓	37
54 00	34 30			10.8 ✓	12
52 45	34 03			49 ✓	53
52 54	34 00			39 ✓	50-55
53 48	33 54			16 ✓	18
52 32	33 35			32 ✓	38-42
52 50	33 24			32 ✓	42-43
53 00	33 30			50-51	58-59
54 55	31 18			9.1 ✓	12
54 56	31 36			5.7 ✓	7
55 39	31 52			18 ✓	21
55 17	31 52			16.5 ✓	21
55 20	30 25 15			31-33	36
54 38	30 18			30.5 ✓	36
52 49	30 26			48 ✓	55-58

H-6889 is much more sparsely sounded than H-7078. The earlier sheet implies a deeper and more irregular bottom than H-7078. The latter sheet shows more regular transition from shoaler to deeper depths (except near shore or reefs) and implies a fairly smooth bottom surface.

Datum difference was considered when making comparison.

LIST OF SIGNALS

PA 1145

H-7078

ANN	T-7000a
ASK	"
BAG	"
BOT	"
CAT	"
CUT	"
DOG	"
DIM	"
ELF	"
FAR	"
GUS	"
GANNET	GANNET, 1945
GOIL	T-7000a
HAG	"
HED	HED (USN) 1933
HA	T-7000a
CHURCH SPIRE	CHURCH SPIRE 1945
JAR	T-7000a
KEY	"
LAX	"
MAN	"
RADIO MAST	RADIO MAST 1945
NAT	T-7000a
NASHVILLE BN.	NASHVILLE BN., 1945
PAL	T-7000a
PIN	T06930a
QUO	T-7000a
RUN	"
SAD	"
TOW	"
TAN	"
TRI	"
TANK (WATER TOWER)	TANK (WATER TOWER), 1945
USE	T-7000a
YAL	"
WAG	"
YAM	"
ZETO	ZETO PT. BN., 1945

PA 1145

H-7078

Kuluk Bay - Adak I.

GEOGRAPHIC NAMES PENCILED ON THE SMOOTH SHEET

Adak Island <sup>214</sup> ✓

Kuluk Bay

Yippee

~~Sosbee~~ Shoal

Zeto Point

Gannet Rocks

Head Rock

7



Respectfully submitted,

*Edgar E. Smith*

Edgar E. Smith  
Cartographic Engineer  
Seattle Processing Office

7600m

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

## TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

May 27, 1946

Division of Charts: H. W. MURRAY

Plane of reference approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 7078

Locality Kuluk Bay, Adak Island, Aleutian Is., Alaska

Chief of Party: R. F. A. Studds in 1945  
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:

*E. C. McKay*  
*Section*  
Chief, ~~Division of Tides and Currents.~~

GEOGRAPHIC NAMES

Survey No. **H7078**

Name on Survey

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

A

B

C

D

E

F

G

H

K

<u>Adak Island</u>									U.S.G.B	1
<u>Kuluk Bay</u>									"	2
<u>Kuluk Shoal</u>									"	3
<u>Head Rock</u>									"	4
<u>Zeto Point</u>									"	5
<u>Gannet Rocks</u>									"	6
<del>Viper</del> <u>Sosbea Shoal</u>										7
<u>Clam Lagoon</u>									U.S.G.B	8
										9
										10
										11
										12
										13
										14
<u>Sweeper Cove</u>									U.S.G.B	15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

(alternate name suggested by Comdr. Studds, as a P. boat struck it and sank. Hence, Sosbees name should probably be applied to a land feature) U.S.

Names underlined in row 8 corrected by L Heck on 9/7/46

(location of tide staff)



Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7078**

Records accompanying survey:

Boat sheets <sup>Retained in</sup> ~~field~~; sounding vols. 5....; wire drag vols. ....;  
 bomb vols. ....; graphic recorder rolls <sup>2</sup>....;  
 special reports, etc. ....  
 .....

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

Number of positions on sheet	.....	1220
Number of positions checked	.....	34
Number of positions revised	.....	0
Number of soundings revised (refers to depth only)	.....	12
Number of soundings erroneously spaced	.....	12
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	3 hrs.
Junctions	Time	30 "
Verification of soundings from graphic record	Time	4 "

Verification by *C.P. Reed* ..... Total time *170 hrs.* Date *8-27-46*.

Reviewed by *J. F. Jordan* ..... Time *25* Date *8-30-46*.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7078

FIELD NO. Pa-1145

Alaska - Aleutian Islands, Adak Island, Kuluk Bay  
Surveyed in Aug. to Sept. 1945 Scale 1:10,000  
Project No. CS-218

Soundings:

Dorsey III Fathometer  
808 Fathometer

Control:

Three-point fixes on shore  
signals

Chief of Party - R. F. A. Studds  
Surveyed by - R. F. A. Studds and S. B. Grenell  
Protracted by - C. N. Hillman  
Soundings plotted by - C. N. Hillman  
Verified and inked by - C. P. Reed  
Reviewed by - G. F. Jordan, August 30, 1946  
Inspected by - H. W. Murray

1. Shoreline and Control

Sources of shoreline and control are adequately given  
in the Descriptive Report. The islets & rocks awash in vicinity of lat.  $51^{\circ}55'54''$   
long.  $176^{\circ}32'27''$  have been corrected to agree with T-7035a(1946)

2. Sounding Line Crossings

Satisfactory.

JAS 11/10/47

3. Bottom Configuration

Except in a few shoal areas the bottom is smooth and  
slopes gradually to the offshore limits of the survey  
where 70-fm. depths prevail.

The incompleteness of sounding necessary for delineation  
of the zero and the 1-fm. depth curves is explained in  
the descriptive report.

Inasmuch as the boat sheet was retained in the field, low water detail which might be indicated thereon in the vicinity of lat.  $51^{\circ} 54.8'$ , long.  $176^{\circ} 34.2'$ , is not shown on the smooth sheet. *added 6/3/47 - G.F.D.*

4. Adjoining Surveys

Satisfactory junctions are effected on the south with H-7079 (1945), H-7084 (1945) and H-6915 (1943), and on the west and in the vicinity of Kuluk Shoal with H-6910 (1943-44). Surveys on the east are being executed in the 1946 season.

5. Comparison with Prior Surveys

H-6889 (1933), a survey by the Navy on a scale of 1:15,000, covers the area of the present survey. The agreement of depths with the present survey is unsatisfactory, as is shown by a tabulation of comparisons which is included in the descriptive report, pages 8 and 9. The present survey shows a generally smooth bottom 2 to 10-fms. shoaler than the apparently irregular bottom on the Navy survey.

H-6889 is entirely superseded within the limits of the present survey except for bottom characteristics which have been carried forward.

6. Wire Drag Surveys

A large part of the area of the present survey is covered by H-6911 (1943)W.D. There are no conflicts between effective depths of the drag and present depths.

7. Comparison with Chart 9141 (Print date of Feb. 2, 1946)  
Chart 9119 (Print date of Nov. 17, 1945)

a. Hydrography

- (1) Charted hydrography originates with surveys discussed in the preceding paragraphs of this review.
- (2) Charted sunken rocks at lat.  $51^{\circ} 54.62'$ , long.  $176^{\circ} 35.24'$  should be retained. These rocks are shown on blueprint 38631 (1944), a dock-location survey, and are substantiated by undeveloped shoal soundings on the present survey.
- (3) According to T-7000a (1945), the dock at lat.  $51^{\circ} 54.6'$ , long.  $176^{\circ} 35.0'$  is now in ruins.

b. Aids to Navigation

Charted aids to navigation agree with aids on the present survey. Subsequent to the present survey, a lighted buoy was established at lat.  $51^{\circ} 54.78'$ , long.  $176^{\circ} 30.57'$ .

8. Condition of Survey

- a. Sounding records and descriptive report are complete in all detail.
- b. Smooth plotting was very good.

9. Compliance with Project Instructions

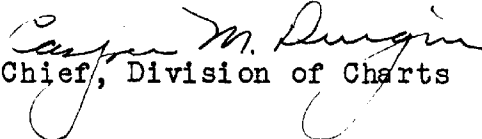
Satisfactory.

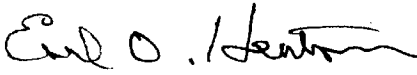
10. Additional Field Work


Development is desirable of the charted sunken rocks in lat.  $51^{\circ} 54.62'$ , long.  $176^{\circ} 35.24'$  which are discussed in par. 7a(2) of this review.

Examined and approved:

  
Chief, Nautical Chart Branch

  
Chief, Division of Charts

  
Chief, Section of Hydrography

  
Chief, Division of Coastal Surveys

# NAUTICAL CHARTS BRANCH

SURVEY NO.   H7078  

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/15/50	9102	<i>J. Stewart</i>	<del>Before</del> After Verification and Review
3/19/47	9141	<i>H. E. MacKven</i>	Before After Verification and Review
July '51	9193	L. S. S.	Before After Verification and Review Add a few sndgs.
11/26/58	8863	<i>J. Walker</i>	<del>Before</del> After Verification and Review <i>Completely applied to Reconst</i>
1/10/61	9119	<i>J. Evans</i>	<del>Before</del> After Verification and Review <i>partial appl'n</i>
1/11/61	9141		<i>be considered final until chart is reconstructed</i>
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

M-2168-1

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.

# 7078

Additional work

Diag'd. on Diag. Ch. No. 8863-2

Form 504

U. S. COAST AND GEODETIC SURVEY  
DEPARTMENT OF COMMERCE

## DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PA-1145 Office No. H-7078

### LOCALITY

State Alaska-Aleutian Islands

General locality Adak Island

Locality Kuluk Bay

1946

CHIEF OF PARTY  
I. E. Rittenburg

LIBRARY & ARCHIVES

DATE April 18, 1946

B-1870-1 (1)

82078

Additional work

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.

REGISTER NO. H-7078 Ad'l Wk.

Field No. PA-1145

State Alaska-Aleutian Islands

General locality Adak Island

Locality Kuluk Bay

Scale 1:10,000 Date of survey Aug. 26 & Sept. 7, 1946

Instructions dated DERICKSON

Vessel DERICKSON

Chief of party I. E. Rittenburg

Surveyed by F. B. Quinn & J. Laskowski

Soundings taken by fathometer, graphic recorder, ~~hand lead, wire~~

Protracted by R. K. DeLawder

Soundings penciled by R. K. DeLawder

Soundings in fathoms feet at MLW MLLW by Graphic Recorder

REMARKS: Inked by F. H. Bell, verified by F. H. Bell

REG. NO. H7078 Additional

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC SURVEY H-7078 (1946) Ad. Wk.

Ship DERICKSON-1946

I. E. Rittenburg, Commanding

This additional work was accomplished in conjunction with the survey of Field Sheet DE-3146 and includes the development of three shoal areas within the limits of the previous season's work. The positions of navigational and mooring buoys were also obtained in Kuluk Bay and in the approach to Sweeper Cove.

The soundings were obtained on August 26, and September 7, 1946 by the Ship DERICKSON using the 808 recording fathometer, and were reduced from the standard tide gage at Sweeper Cove.

Previously established control stations with the addition of the newly established triangulation station Breakwater Light, 1946, furnished the control for this work.

Respectfully submitted



I. E. Rittenburg  
Commanding, Ship DERICKSON



STATISTICS FOR HYDROGRAPHIC SURVEY

H-7078 (1946) Ad. Wk.

Ship DERICKSON

Day	Date	Positions	Miles, Statute	Vessel
a	Aug. 26	147	20.9	DERICKSON
b	Sept. 7	<u>9</u>	<u>    </u>	Motorsailer
	Total	156	20.9	

*L. C. W.  
Hewitt*

## TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in  
1 volume of sounding records for

HYDROGRAPHIC SHEET

7078 (additional work)

Locality - Scabbard Bay, Adak Island, Aleutian Islands, Alaska.

Chief of Party: I. E. Rittenburg in 1946

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 3.7 feet.

Condition of records satisfactory except as noted below:

*E. C. McKay*  
*Section*  
Chief, ~~Division of Tides and Currents.~~

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. *7078 Ad/Wk.*

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		<i>156</i>	.....
Number of positions checked			.....
Number of positions revised			.....
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... *Forest N. Bell* ..... Total time *24* ..... Date *5/12/47*  
*g. s. y.* ..... *5/29* ..... *6/3/47* .....

Reviewed by... *J. F. Jordan* ..... Time *3* ..... Date *6/3/47* .....

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

The additional work in 1946 shown in purple ink adequately completes the development of three shoal areas.

A position was obtained for the lighted bell buoy at lat.  $51^{\circ} 52.48'$ , long.  $176^{\circ} 36.43'$ .

The following buoy and shore markers fall outside the limits of the smooth sheet and have been plotted on H-7084 (1945):

Lighted bell buoy at lat.  $51^{\circ} 51.9'$ , long.  $176^{\circ} 37.13'$ .

Unlighted light on pole at lat.  $51^{\circ} 51.55'$ , long.  $176^{\circ} 35.53'$ .

Red and yellow beacon at lat.  $51^{\circ} 51.50'$ , long.  $176^{\circ} 35.5'$ .

The survey and charted positions of the navigational buoys are in agreement and adequately mark the features intended. The buoys are shown by hand correction on chart 9119 (print date of November 17, 1945).

Reviewed by: G. F. Jordan

June 3, 1947

Approved by: H. W. Murray

# NAUTICAL CHARTS BRANCH

SURVEY NO. 7078 Add'l. Work

## Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
July 1951	9193	L.S.S.	<del>Before</del> After Verification and Review Add a few sndgs.
11/30/58	8863	JFW	<del>Before</del> After Verification and Review Completely applied to Record
1/10/61 1/11/61	9119 } 9141 }	J/E	<del>Before</del> After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review

M-2168-1

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.