

6924

Additional work

Diag'd on Diag. Ch. No. 10052

Form 504
Rev. June 1941
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

REGISTERED

~~Photographic~~
~~Plaster Molds~~
Hydrographic

Survey No. H-6924
(Field)

Additional Work

Additional work

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Finger Bay, Adak Island

1945

CHIEF OF PARTY

R. F. A. Studts

U. S. GOVERNMENT PRINTING OFFICE: 1946 315551
MAR 11 1946

6924

DESCRIPTIVE REPORT

TO ACCOMPANY

SUPPLEMENTAL HYDROGRAPHIC SURVEYS; H-6917; H-6915; H-6924

ADAK ISLAND, 1945

SHIP PATTON R. F. A. STUDDS, COMMDG.

PROJECT: Project CS-218 dated 1 ^{June 1944} February 1944; 8 August 1945, Project 23, Paragraph 6(a)(b)(c)(d), issued 30 April 1945 by Liaison Officer.

SURVEY LIMITS AND DATES:

Sheet H-6915; Scale 1:5,000; Sweeper Cove and approaches

Sheet H-6917; Scale 1:10,000; Scabbard Bay

Sheet H-6924; Scale 1:5,000; Finger Bay and approaches

The original, registered boat sheets were used in the field and hydrography was done at various times on these sheets as weather permitted between 12 June and 13 September. Most of the work on H-6917 and H-6924 was development inside of area previously covered. H-6915 was extended eastward to cover the approaches to Sweeper Cove. ~~An Index of Hydrographic Sheets, attached to this report, shows the number and location of all adjoining sheets and the approximate limits of hydrography on each sheet.~~

VESSEL AND EQUIPMENT: The launch used on this survey was a 33 foot, Higgins type, landing craft powered by a 110 HP Chrysler Marine gas engine with a top speed of 10½ knots. Type 808 recorder No. 74 was mounted in the forward end of the cockpit and a standard type "fish" holding the transceiver units was secured amidships on the port side. The launch was operated from Sweeper Cove or left at a mooring on the working grounds in Blind Cove. No data on turning radius were obtained, as soundings were not recorded on turns.

CONTROL STATIONS: Since the boat sheets were originally constructed, the control datum has been changed from U. S. Navy to Unalaska. The Unalaska Datum is indicated in pencil on the boat sheets, and new control, computed on the Unalaska Datum only, has been plotted on the boat sheets from the pencilled datum.

New control, added in 1945 to the original boat sheets is listed as follows:

Sheet H-6915 Triangulation GANNET, 1945, R. F. A. Studds (same location as topographic station GAN-1943, Ship EXPLORER)
Hydrographic signals, located by sextant cuts from launch in area between Sweeper Cove and Lucky Point. See Vol. I, pages 4 to 10. Signal NUN was located by a fix at the signal; Vol. I, Page 9.
Topographic signals located by planetable in Hammerhead Cove: LEG, BOL, ARM, GAB, BAR; Sheet PA-A-1945.

Sheet H-6917 No new control established or used in 1945.

Sheet H-6924 No new control established or used in 1945.

SHORELINE AND TOPOGRAPHY: There was no new shoreline delineation on Sheets H-6917 and H-6924. In the area covered by Sheet H-6915, revision topography was done along the west side of Kuluk Bay and on the north and west side of Sweeper Cove where construction operations had altered the shoreline. See topographic sheets PA-A-45(1:5,000) and PA-C-45(1:10,000).

On none of these sheets was it possible to determine the low water line by soundings due to the low tide range and the fact that the steep-to, rocky shoreline was guarded by thick kelp or too dangerous to approach closely with the sounding launch. The inshore lines were run as close to the beach as safety permitted.

SOUNDINGS: All soundings on these sheets were taken with the 808 type recording fathometer supplemented by hand lead investigation of shoal areas. Standard hydrographic practice was followed. Soundings are recorded in fathoms and feet instead of in fathoms and tenths to conform with the original soundings which were in fathoms and feet.

CONTROL OF HYDROGRAPHY: All hydrographic lines were controlled by the standard three-point-fix method of sextant angles to located signals. See paragraph "Control Stations" for method of location of signals.

ADEQUACY OF SURVEY: The area covered by hydrography on all three sheets is complete. There are no holidays and the junctions with all adjoining sheets are complete and in agreement so that depth curves can be accurately drawn. The junctions between the 1945 hydrography and previous soundings on the same sheet are in agreement. Where additional development of shoals was executed, no major changes were noted in the original least depths recorded. Since the soundings for the 1945 hydrography have not been reduced, the final depths for charting should be taken from the completed smooth sheet.

COMPARISON WITH PRIOR SURVEYS: The original surveys in this area were made by the U. S. Navy and numerous discrepancies were noted when compared with our recent work. The Navy soundings are in general, more widely spaced and apparently less accurately controlled than the Coast Survey hydrography. This has resulted in the displacement of depth curves and in better delineation of shoals and deeps missed on the original survey.

One outstanding discrepancy occurs at a point midway on a line between Lucky Point and Gannet Rocks where the Navy survey showed a depth of 62 fathoms and Sheet H-6915 shows a considerable area less than 40 fathoms with a least depth of 29 fathoms surrounded by depths from 45 to 50 fathoms, and no indication of any depths of over 60 fathoms as charted.

There are numerous other discrepancies of this nature, but of less importance, which should be investigated after the smooth sheets are plotted. The most recent issues of charts 9119 and 9141, which cover this area, have been revised to include surveys through 1944. The additional data accumulated in 1945, when applied to the charts, should make the area covered complete.

A discussion of the shoals discovered in the bight west of Lucky Point, H-6915, will be covered in the next paragraph.

DANGERS AND SHOALS: No new dangers or shoals were found on sheets H-6917 and H-6924. Additional development work was done on shoals previously indicated on these sheets, but no important differences in least depths were found. A study of the completed smooth sheet will readily show the changes.

On Sheet H-6915, no new dangers were found except in one small area extending approximately one half mile westward from Lucky Point. This area is shown on Chart 9141 as relatively free from dangers. The survey of the area found the bight to be full of shoals with least water varying from 4 fathoms to 1 foot. These shoals are listed with latitude and longitude on the U. S. Navy datum and least depths from the boat sheet.

<u>Latitude</u>	<u>Longitude</u>	<u>Least Depth(Fms.)</u>
51° 51' 23"	176° 35' 57"	2
51° 51' 18"	176° 36' 02"	2-2/6
51° 51' 17"	176° 36' 10"	2-5/6
51° 51' 13"	176° 36' 09"	0-1/6
51° 51' 10"	176° 36' 05"	0-1/6
51° 51' 13"	176° 36' 20"	1-4/6
51° 51' 13"	176° 36' 34"	2-4/6
51° 51' 17"	176° 36' 07"	1-1/6
51° 51' 11"	176° 36' 06"	1-1/2

These shoals were reported immediately to the local Naval authorities and a tracing of the area furnished from which copies could be printed for distribution to ships operating in the area.


TABULATION OF APPLICABLE DATA:

The following reports and forms have been,
or will be submitted under separate cover:

- (1) Coast Pilot Notes
- (2) Landmarks for Charts
- (3) Salinity and Temperature - Velocity Corrections
- (4) Report of Triangulation

Respectfully submitted,

Approved and Forwarded:


R. F. A. Studds
Lt. Comdr., C&GS
Cmdg., USS PATTON


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

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. ~~H-6915, H-6917~~, H-6924

REGISTER NO.

State Alaska

General locality Aleutian Islands

Locality FINGER
Kuluk Bay, Adak Island

~~H-6915, 1:5000, H-6917, 1:10,000~~

Scale H-6924, 1:5000 Date of survey 12 June to 13 Sept. 1945

Vessel Ship PATTON

Chief of Party R. F. A. Studde

Surveyed by S. B. Grenell

Protracted by C. L. Kittleson

Soundings penciled by C. L. Kittleson

Soundings in fathoms ~~feet~~

Plane of reference M. L. L. W.

Subdivision of wire dragged areas by

Inked by A. P. STIRNI

Verified by A. P. STIRNI

Instructions dated CS-218, 1 Feb. 1944 and 8 Aug. 1945
Proj. 23, 30 April, 1945

Remarks:

REG. NO. Additional work
H6924

STATISTICS FOR HYDROGRAPHIC SHEET H-6915

SHIP PATTON, PROJECT CS-218 SUPPLEMENTAL 23

Vol.	Day	Date	Sndgs.V.C.	Positions	Miles Stat.	Vessel
I	a	12 June	15	145	13.0	Launch
	b	13 June	2	76	7.7	Launch
	c	15 June	1	25	1.7	Launch
	d	20 June	2	24	1.1	Launch
II	e	8 Sept.		169	27.0	Launch
	f	11 Sept.		95	17.1	Launch
	g	13 Sept.		44	6.3	Launch
Totals:			20	578	83.9	
Area in Sq. Stat. Miles: 2.9						

STATISTICS, SHEET H-6917

I	a	16 June	2	68	7.1	Launch
	b	19 June	7	76	14.5	Launch
Totals:			9	144	21.6	

STATISTICS, SHEET H-6924

I	a	18 June	6	31	4.7	Launch
	b	19 June	-	13	1.6	Launch
Totals:			6	44	6.3	

TIDE NOTE - SHEETS H-6915; H-6917; H-6924

The tide reducers for these surveys 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

APPROVAL SHEET

The records and the boat sheet for Survey H-6924
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

GEOGRAPHIC NAMES

Survey No. **H6924**

Additional work

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

Lucky Point

Pit Rocks

U.S.R

1

U.S.R

2

3

4

5

6

~~Not identified in red section~~
L Heck on 5/2/46

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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ...**H6924** Additional work

Records accompanying survey:

Boat sheets ...**2**.; 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	..	44	..
Number of positions checked	..	19	..
Number of positions revised	..	5	..
Number of soundings revised (refers to depth only)	..	—	..
Number of soundings erroneously spaced	..	—	..
Number of signals erroneously plotted or transferred	..	2	..
Topographic details	Time
Junctions	Time
Verification of soundings from graphic record	Time

Verification by...**A. R. STIRNI**.....Total time ..**10 hrs** Date **7/23/46**

Reviewed by...**R. H. Carstens**..... Time ..**3 1/2**... Date **7/29/46**

7wm

TIDE NOTE FOR HYDROGRAPHIC SHEET

15 March 1946

~~Division of Hydrography and Topography:~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
1 volumes of sounding records for

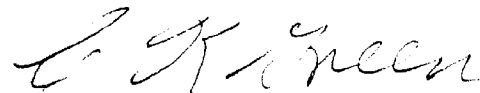
HYDROGRAPHIC SHEET 6924 (additional work)

Locality Finger Bay, Adak I., 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:



Chief, Division of Tides and Currents.

REVIEW OF H-6924 Add. Wk. (1945)

Inasmuch as the additional work consisted of only a few split lines and bottom characteristics, no regular review is considered necessary.

Items of importance from the additional work, that would affect Chart ⁹¹¹⁹ ~~9115~~, are the 4/6-fms. in lat. $51^{\circ} 50.48'$, long. $176^{\circ} 35.41'$, and a few additional bottom characteristics.

It is noted that no additional work was accomplished on the 5-4/6-fm. shoal in lat. $51^{\circ} 51.60'$, long. $176^{\circ} 34.55'$, and the 6-1/6-fm. shoal in lat. $51^{\circ} 51.67'$, long. $176^{\circ} 34.67'$, where lesser depths could probably be developed.

April 30, 1946

R. H. Carstens

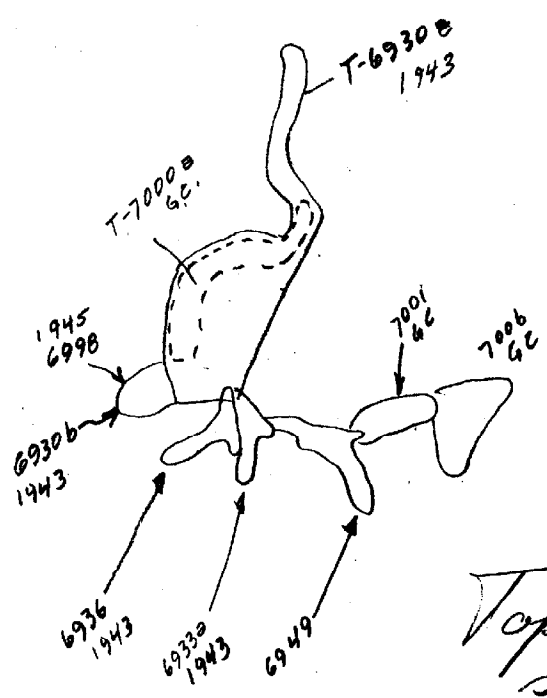
Raymond H. Carstens

Inspected:

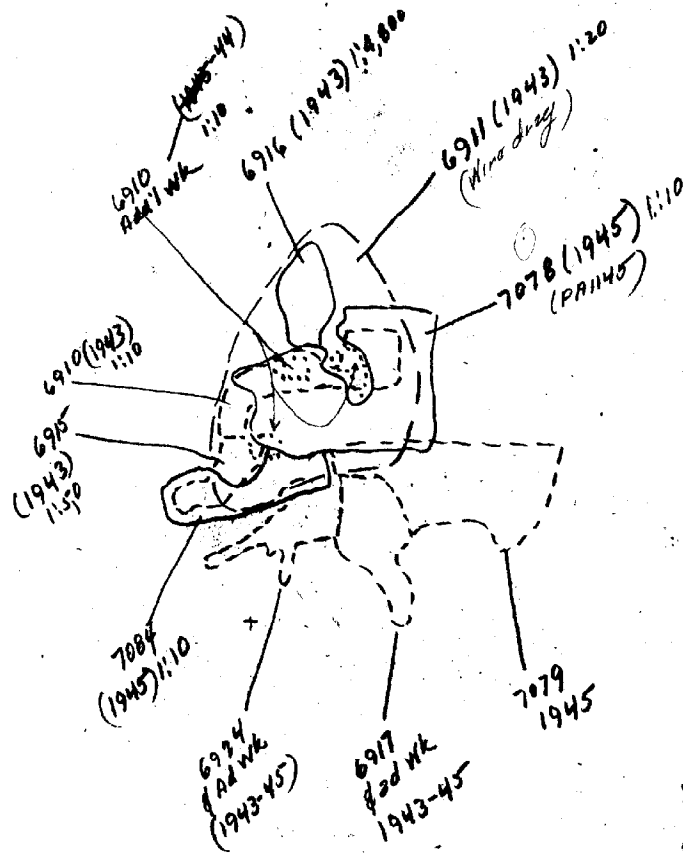
Approved:

No Correction on chart 9193 7/24/51 L.S.S.

1145



Topo sheets



PA

Hydro sheets

1 2 3 4 5 6 7 8 9 10

NAUTICAL CHARTS BRANCH

SURVEY NO. H6924 Additional work

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/19/47	9141	<i>H. Mac Ewen</i>	Before After Verification and Review <i>no correction at this time</i>
5/11/48	9119	<i>J. R. McEwan</i>	Before <u>After</u> Verification and Review <i>Completely applied</i>
B-7-'51	9193	L. S. S.	Before After Verification and Review <i>add 6 in small case</i>
11/24/58	8863	<i>J. P. W.</i>	Before After Verification and Review <i>Completely applied to Reconst.</i>
<i>deleted</i>	9141	<i>[Signature]</i>	Before After Verification and Review <i>J. M. C.</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.

6924

6924

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. 5443 Office No.

LOCALITY

State ~~Alaska~~

General locality Aleutian Islands

Locality Adak Island

Finger Bay

1943

CHIEF OF PARTY

G. C. Mattison

LIBRARY & ARCHIVES

DATE

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. ~~H68803~~
H6924

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. 5443

REGISTER NO.

State ~~ALASKA~~ ALASKA

General locality Aleutian Islands, Adak Island

Locality Finger Bay

Scale 1:5,000 Date of survey June, 1943

Vessel EXPLORER

Chief of Party G. C. Mattison

Surveyed by S. B. Grenell

Protracted by Christine Nechaj

Soundings penciled by Christine Nechaj

Soundings in fathoms ~~feet~~ Fathoms

Plane of reference MLLW

Subdivision of wire dragged areas by

Inked by A. P. STIRNI

Verified by A. P. STIRNI

Instructions dated April 16, 1943

Remarks: Smooth Sheet and Plotting by the

Seattle Processing Office.

FIELD NOTES FOR DESCRIPTIVE REPORT

HYDROGRAPHIC SURVEY OF

FINGER BAY AND VICINITY

ADAK ISLAND - 1943

INSTRUCTIONS:-

Project CS-218, dated April 16, 1943. ✓

AREA:-

This hydrographic survey was executed at the request of the U. S. Navy and included detailed development of Finger Bay and approaches on a scale of 1:5,000. ✓

EQUIPMENT:-

All hydrography was done with the 808 type fathometer with oscillator and receiver units mounted in the bilges of a standard hydrographic launch. The handlead was used to check all critical shoal areas for least depth. ✓

CONTROL:-

Third order triangulation was extended into the area and standard planetable methods used to locate signals for control and shoreline detail. The hydrography was controlled by standard 3-point fix from sextant angles. ✓

DEVELOPMENT:-

The sounding lines were closely spaced and all shoal indications in channels or anchorages were carefully investigated by both fathometer and handlead. Numerous notes as to kelp, off-lying rocks etc., are entered in the sounding volume. No special note is required for dangers to navigation as all development is clearly indicated on the boat sheet and entered in the records. ✓

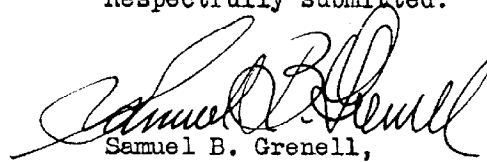
RECORDS:-

All reducers have been entered and checked in the sounding records. All fathograms have been checked and critical soundings entered in the records. ✓

STATISTICS:-

All records had been forwarded to the Seattle Processing Office when this report was written, so statistics must be listed by that Office. ✓

Respectfully submitted:


Samuel B. Grenell,
Lieut. Comdr., C. & G.S.

APPROVED AND FORWARDED:


G. C. Mattison,
Commanding Officer,
U.S.C. & G.S.S. EXPLORER

Sheet No. 5445 (Field)

Finger Bay, Adak Island

Aleutian Islands

1943

TIDAL NOTE

Sweepers Cove

Portable Automatic Gage

Latitude 51° 51.2

Longitude 176 58.4

Staff Reading of MLLW 2.8 Feet

See Director's Letter, 36-mlh, of Nov. 11, 1943.

Sheet No. 5443 (Field)

Seattle Processing Office Notes

Aleutian Is. - Adak Island

Finger Bay

Datum:

This smooth sheet, based on the U. S. Navy datum, was prepared and partly plotted before the Washington Office computations (Field) of the geographic positions based on Unalaska Datum were received. The Unalaska Datum is indicated on the sheet.

Shore-line:

The shore-line is transferred from topographic sheets of like scale except for two or three inches of the shore-line in the north part of the sheet west of Longitude 176° 35' 30" near signals HEX and OUT, and the islands near PIT, which was enlarged from 1:20,000 scale.

Attention is called to the following soundings:

Lat. & Long.	Position	Fathoms
51 ⁰ 50.13	82 c	4 4/6 ✓
176 35.25	31 f	4 5/6 ✓
51 49.95	17-18 c	7 ✓✓
176 34.95		
51 51.15	30-31 b	21 ✓
176 34.35		
51 50.62	93-94 a	7 3/4 ✓✓
176 35.86		
51 49.78	38-39 f	2 1/6 ✓✓
176 34.95		
51 50.25	171-172 c	1 5/6 ✓✓
176 35.25		
51 50.38	158 f	5/6 ✓✓
176 35.65	159 f	
51 50.2	146-147 f	5 ✓✓
176 37.2		

83

Lat. & Long.	Position	Fathoms
51° 50.45 176 34.95	31-32 g	1 5/6 ✓
51 50.6 176 36.05	16-17 b	2 1/2 ✓
51 51.02 176 35.7	93-94 b	1 4/6 ✓✓
51 51.2 176 35.05	60-61 b	3 1/6 ✓✓
51 51.4 176 35.48	85 g	3 1/2 ✓✓ 83
51 51.45 176 34.85	77-78 h	5 4/6 ✓✓
51 51.55 176 35.3	118 h 119 h	4/6 ✓✓
51 51.53 176 34.55	136-137 h	4/6
51 51.48 176 35.3	125-126 h	2 4/6 ✓✓
51 51.48 176 34.65	90 h	4 4/6 ✓✓

Statistics: Finger Bay

Stat. Miles Sounding Lines ----- 118.7

Soundings ----- 8806

Positions ----- 1017

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.

Finger Bay

List of Signals

Triangulation

HALF 1943
THUM "
HEEL "
LUCKY "
FINGER "
TOE "
PIT (USN) 1933

Seb
Sig
Ren
Wop
Yet
Ape
Boy
Cat

Dog
Bat
Fox
Zed
Vex
Uno
Tel
Pal

Oak
Diz
Con
Bel
Ace or Ans
Fog
Wash
In

Topo Sheet L-45 T-6933a (1943)

T-6949 (1943)

Topo Sheet - Scabbard Bay

Mid

T-6930a (1943)

Topo Sheet - Kuluk Bay

Jut or Out
Hex
Top

Topo Sheet - M-45 T-6936 (1943)

Nut	Did
Mon	Pole
Faw	Lay
Wet	Gab
Pub	Her
Lit	Maw
Jip	Fat
Hac	Ear
Get	Oof
Ale	Bed
Beg	Ade
Cop	Fox

Surveys Section (Chart Division)

~~H6883~~

HYDROGRAPHIC SURVEY NO. H6924

Records accompanying survey:

Boat sheets²; sounding vols. ...⁵.; wire drag vols.;
 bomb vols.; graphic recorder rolls ¹....;
 special reports, etc. ..~~Temperature, Salinity, & Velocity Corrections~~
 Ship Patton, 1945 --R. F. A. Studds --filled in the Descriptive Report
 ...of H-6915.....

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

Number of positions on sheet		.1017.
Number of positions checked		..92..
Number of positions revised		...4...
Number of soundings recorded		.8806
Number of soundings revised (refers to depth only)		..26..
Number of soundings erroneously spaced		..43..
Number of signals erroneously plotted or transferred		...7...
Topographic details	Time	..8..
Junctions	Time	..7...
Verification of soundings from graphic record	Time	..24..
Verification by..A. P. STAPPI...	Total time	..117.. Date April 5, 1944
Review byJ. A. McCormick.....	Time	..16 hrs Date 4/17/44.

Remarks

Decisions

	Remarks	Decisions
1		
2		
3		515765 U.S.G.B
4		"
5		
6		
7		
8		
9		
10		
11	Location of flag staff	515765 U.S.G.B
12		
13		
14		
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27		

GEOGRAPHIC NAMES

Survey No. **H6883**
H6924

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K
Alaska									1
<u>Aleutian Islands</u>									2
<u>Adak Island</u>									3
<u>Finger Bay</u>									4
<u>Finger Shoal</u>									5
									6
									7
									8
									9
									10
<u>Sweeper Cove</u>									11
									12
									13
									14
									15
									16
									17
									18
									19
									20
									21
									22
									23
									24
									25
									26
									27
									M 234

Names underlined in red approved
by L. Heck on 4/20/44.

MEMORANDUM

IMMEDIATE ATTENTION

SURVEY
DESCRIPTIVE REPORT
PHOTOSTAT OF

} No. H **H6924**
No. T

{ received February 10, 1944
registered February 10, 1944
verified
reviewed
approved

This is forwarded in order that your attention may be directed to the matters as indicated below. Please initial in column 3 as an acknowledgement that your attention has been thus directed. The complete original records are available if desired. If you cannot give this your immediate attention, please initial, note, and forward to the next section marked, calling for the records at your convenience.

ROUTE		Initial	Attention called to
20			
22			
24			
25			
26			
30			
40			
62			
63			
82			
✓ 83	Pg 384	<i>HF</i>	Comdr Finnegan <i>Mr Walker</i> <i>Mr Stegmann</i>
88			
90			

RETURN TO

82 Comdr. R. W. Knox

✓ RWK

RAC
H.C.

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 14, 1944

~~Division of Hydrography and Topography:~~

Division of Charts: Attention: H. R. EDMONSTON

Plane of reference approved in
5 volumes of sounding records for

HYDROGRAPHIC SHEET 6924

Locality Finger Bay, Adak Island, Aleutian Islands, Alaska

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

Height of mean high water above plane of reference is 3.2 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. 6924

Field No. 5443

Aleutian Islands; Adak Island; Finger Bay
Surveyed June 1943; Scale 1:5,000
Project C. S. 218

Soundings:

Hand lead
808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party - G. C. Mattison
Surveyed by - S. B. Grenell
Protracted by - C. Nechaj
Soundings plotted by - C. Nechaj
Verified and inked by - A. R. Stirni
Reviewed by - J. A. McCormick
Inspected by - H. R. Edmonston, April 18, 1944

1. Shoreline and Signals

Shoreline and topographic signals are from T-6930a, T-6933a, T-6936 and T-6949, all made in 1943.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves

Satisfactory.

4. Adjoining Surveys

Agreement with H-6917 (1943) on the east is satisfactory. Areas on the north and west were not surveyed in 1943.

5. Previous Surveys

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

The Navy hydrography is considerably generalized, particularly in the two fingers of the bay where the

1933 shoreline is displaced laterally by more than 100 meters. A 24-fm. sounding in Lat. $51^{\circ}50.75'$, Long. $176^{\circ}35.10'$ on H-6889 is obviously in error. Surrounding depths on H-6889 exceed 50 fathoms and the present survey shows 47 to 49 fathoms. Some of the shoal features check very well, as for example the rock awash in Lat. $51^{\circ}51.55'$, Long. $176^{\circ}34.60'$ on both surveys. The present survey supersedes H-6889 in the common area.

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

Depths charted in this area are from B.P. 37293, a field compilation of boat sheet depths. Some revisions have been made in this office and there are the usual differences of 1 to 6 feet between boat and smooth sheet depths. The chart should be revised to agree with the smooth sheet.

The spar buoy marking the rock awash on Finger Shoal was established subsequent to completion of the survey.

7. Compliance with Project Instructions


Satisfactory, except for lack of bottom characteristics in anchorage areas.

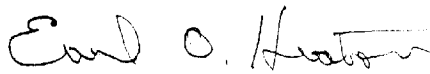
8. Additional Field Work Recommended


Additional lines north of Lat. $51^{\circ}51'$ undoubtedly would develop lesser depths in several instances.

Examined and approved:


Chief, Surveys Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of
Coastal Surveys

Applied to chart 9119. July 1, 1944. L.A.M.
" " " 9141 July 7, 1944 L.A.M.
" " " 9193
" " " 8863 Oct. 27 " J.M.A.
" " " 8663 Recont 11/26/58 J.W.