

Smooth sheet returned to field.
(Photostats on file)

7018

8102

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. EX-4144 Office No. H-7018

LOCALITY

State Alaska

General locality Aleutian Islands

Locality Chirikof Pt. to Theodore Pt., Attu Is.

194 4

CHIEF OF PARTY

Roland D. Horne, Lieut. Comdr., C&GS

LIBRARY & ARCHIVES

DATE APR 30 1945

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO.

H7018

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. **EX 4144**

REGISTER NO. **H-7018**

State **Alaska - Aleutian Is**

General locality **Aleutian Islands Near Islands**

Locality **Southeast of Attu I. Chirikof Point to Theodore Point; Attu I.**

Scale **1:40,000** Date of survey **July 9 to Oct. 5, 19 1944**

Vessel **Ship EXPLODER**

Chief of Party **Roland D. Horne, Lt. Comdr., C&GS**

Surveyed by **W. Weidlich Ships Officers**

Protracted by **R. M. Sylar**

Soundings penciled by **R. M. Sylar**

Soundings in fathoms ~~feet~~ **Fathoms and Tenths**

Plane of reference **MLLW**

Subdivision of wire dragged areas by

Inked by **J. A. Dinsmore**

Verified by **J. A. Dinsmore**

Instructions dated **March 25, 1944**, 19

Remarks: **Projects 5 and 8, "Instructions for Field Work, 1944" written by Lieut. Comdr. Casper M. Durgin, Liaison Officer. Smooth Sheet and Plotting by the Seattle Processing Office.**

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. H-4144

Date of Instructions:

This is part of Projects 5 and 8, "Instructions for Field Work, 1944". written by Lieut. Comdr. Casper M. Durgin under date of March 25, 1944.

Survey Methods:

Standard survey methods were used throughout this sheet.

The control was based on triangulation in the Massacre Bay vicinity done by the Navy in 1943 from control extended by the Army from Chiohagof Harbor on the 1934 Gannet Datum. This triangulation was supplemented by further observations in the vicinity of Massacre Bay and extended to Theodore Point, Temnac Bay and the Near Islands by the EXPLORER in 1944. A half-mile baseline was measured in Temnac Bay by the EXPLORER in 1944 and made a part of this scheme. Additional topographic signals were located by the EXPLORER in 1943 and 1944.

The 808 depth recorder was used throughout, both the "A" and "B" scales being used, with a constant correction of plus 5 feet applied to the latter based on comparisons made at Holtz Bay on Sheet 2344. The initial was set at the beginning of each day for the draft reading of the ship, except on A-day when it was extrapolated from two calendar days later. One set of serial temperatures taken on August 4, 1944 are applicable to this area.

The sounding lines were run north-south, east-west and northeast-southwest on different parts of the sheet to get the best development of shoals or the best junction with the 1:100,000 sheet of 1943. The lines were spaced from 150 meters apart over shoals to 500 meters apart at the outer limits of the soundings taken. Crosslines were run only on the shoal areas. One vertical cast was taken at position.121 A-day.

Work on this sheet is not completed. The 17-fathom shoal located 8 miles east-southeast of Chirikof Point is considered sufficiently developed,

but several other shoal areas must be developed and the system of lines generally extended over the limits of the sheet.

Comparison with other surveys:

Good agreement was obtained in the junction overlap on Sheet H-6936 ~~4448~~ sounded on a scale of 1:100,000 in 1943, but the areas involved were not completely covered by the 1943 sheet. Sheet H-6936 soundings appear on boat sheet ^{H7018} H-4144 in green.

Good agreement was obtained in a junction with 1944 sheet ^{H7015} H-2144 (ship) in the western portion of this sheet. Soundings transferred from sheet ^{H7015} 2144 appear in brown on boat sheet ^{H7018} 4144.

A partial junction with 1943 and 1944 sheet H-6939 gave good agreement but much additional development is required in this portion of the sheet.

Discrepancies:

There are ^{no} discrepancies noted in this survey:

Dangers:

The following shoal spots and rocks lie within the limits of this sheet.

83

^A ~~Three~~ ^{18 1/2} 18-fathom soundings ~~in a 45-fathom area~~ at latitude 52°48.6'N, longitude 173°37.7'E, and a ^{17 1/2} 17-fathom spot in the center of the same shoal at latitude 52°48.6'N, longitude 173°37.0'E., ^{19 1/2 fms} at Lat 52°48.3' Long 173° 37.1'

Sunken rock symbol and 8 1/4-fathom spot shown on the 1943 work at latitude 52°45.6'E, longitude 173°30.6'E. H6939

Sunken rock symbol at latitude 52°45.4'N, longitude 173°30.0'E. ^{from 15 fms on H-6939}

Sunken rock symbol and 7 3/4-fathom 1943 sounding at latitude 52°45.3'N longitude 173°29.5'E. H6939
 The 3 sunken rocks listed above originate with detached exploratory soundings in a foul help area on H-6939. Developed by Add Wk 1946

Sunken rock symbol at latitude 52°47.2'N, longitude 173°29.9'E. ^{No rock shown in this position outside limits of present survey}
 ^{8 1/2} 8 1/4-fathom spot on detached 1944 sounding line at 52°47.2'N, longitude 173°22.3'E.
 Developed on H-6939

1943 sunken rock symbol at 52°44.7'N, longitude 173°22.8'E. H6939

from bp 37470

1943 sunken rock symbol at 52°45.1'N, longitude 173°21.4'E.

Developed on H-6939 Add WK

18-fathom sounding on Sheet H-6936 in 1943 at latitude 52°43.3'N,

superseded by 18 on present survey

longitude 173°20.0'E.

Shoal area and DELLWOOD wreck lying between triangulation stations NED and CENT. H6939

Sunken rock symbol and 2-fathom spot in 1943 at latitude 52°47.3'N,

Outside limits of present survey

longitude 173°16.6'E. H6939

Sunken rock symbol and 1 1/2-fathom spot in 1943 at latitude 52°47.2'N,

outside limits of present survey

longitude 173°17.7'E. H6939

10 1/2-fathom 1943 sounding at latitude 52°43.1'N, longitude 173°15.8'E.

No such sounding at this position

Breakers and sunken rock symbols in 1943 in vicinity of latitude 52°43.6'N,

longitude 173°15.5'E. - H6939

Developed by Add WK. 1946

Breakers in 1943 at latitude 52°42.3'N, longitude 173°14.8'E and vicinity, and shoal soundings around it and southeastward. H6939

Developed by Add WK 1946

10-fathom spot from the 1943 sheet 6936 at latitude 52°43.5'N, longitude 173°13.4'E. 8^L by Add WK 1946

¹⁶15-fathom spot at latitude 52°43.4'N, longitude 173°12.5'E, in the 1943 work on sheet H-6939. Developed by Add WK 1946

Channels and Anchorages:

There are no anchorages on this sheet, and channels are described on sheet H-6939.

Statistics:

Number of positions- - - - - 854

Number of statute miles of sounding lines- - - - - 468.0

Tidal Note:

Tide reducers for this sheet are obtained from standard automatic tide gage No. 401 located at Navy Pier No. 1, Massacre Bay.

Respectfully submitted,

W. Weidlich

W. Weidlich, Mate, USC&GS

Approved and forwarded

Roland D. Horne

Roland D. Horne, Lieut. Comdr., C&GS
Commanding Ship EXPLORER

EX 4144

H-7018

Seattle Processing Office Notes

Datum-

USN 1934, approximate, assuming that triangulation station CHIC 1943 has the same coordinates as the Navy Astronomical Station.

Control-

Triangulation by Scaife, 1943, Sylar USED 1943, and Horne 1944.

Topographic signals from T-6970. (1944)

Signal LDME transferred from H-6939.

Cuts to hydro signal ENT indexed in Volume I.

Shoreline-

Attu Island-

Chirikof Pt. to Alexai Pt. - Chart 9128

Alexai Pt. to Murder Pt. - H-6940

Murder Pt. to Krasni Pt. - Sketched from aerial photographs

Krasni Pt. to Head of Temnac Bay - T-6970

Head of Temnac Bay to Theodore Pt - Sketched from aerial photos

Agattu Island- Reduced from Army Quadrangle Sheets (position of shoreline approximate)

State of Completion-

The field work is not finished. The boat sheet was returned to the EXPLORER for continuation in 1945. According to the Director's letter, 82-DRM, of April 13, 1945, the smooth sheet is to be returned to the Processing Office for plotting the additional 1945 work.

Size of Sheet-

This sheet was made longer than 72 inches to include a left object just west of the allowed length. If necessary, this can be cut off after verification, but it is suggested that this be delayed until all field work is completed and plotted.

Remarks by Field Party-

On pages 2 and 3 of the report by the field party, several items are mentioned which show on the boat sheet, but do not appear on the smooth sheet. These are either transfers from the 1943 work on H-6939 or are reported shoals, etc., to be investigated and are not results of the survey for H-7018. ~~The 1944 work on H-6939 is not available to the processing office at this time, and some of the items mentioned which cannot be accounted for may be in that 1944 work. The smooth sheet H-6939 is in Washington. The boat sheet H-7018 was returned to the field party for completion of the field survey.~~

Ten Fathom Shoal-

^{10⁰/₁₀} At Latitude 52° 37.15' Longitude 175° 08.65' is a sounding of 10 ²/₁₀ fathoms. The development of this shoal was recorded in the sounding books of H-6939, 1:100,000. In order to show this on a larger scale, the soundings by the HYDROGRAPHER's Launch on "d" day (blue) were plotted on this 1:40,000 scale sheet. The soundings 1a to 23a (red) by the EXPLORER's Launch are also shown. The fixes after 23a depend on signals lying off H-7018 and are plotted on H-6936. All positions of the two launches are pricked on that sheet. See also page 17 of the report for H-6936.

filed with sdg vol. 6.

Cuts on GILL and RT-

In Volume V are cuts to signals west of the limits of H-7018. They apply to H-6936. These cuts were plotted on H-6936 and were considered when determining positions of these signals.

H-7018

South of Attu Island, Aleutian Islands

TIDAL NOTE

Massacre Bay

Standard Automatic Tide Gage #401 on Navy Pier #1

Latitude 52° 50.45' N.

Longitude 173 11.65 E.

Staff reading of MLLW 3.9 feet

H-7018

STATISTICS

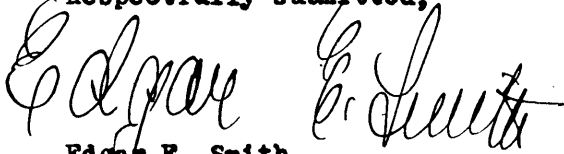
Date	Day Letter	Vol. No.	Vessel	Stat. Miles	No. of Positions	Soundings	
						H.L.	Wire
1944							
July 9	A	1	EXPLORER	64.4	121		
10	B	1	"	49.0	93		
10	B	2	"	17.0	33		
Sept. 2	C	3	"	76.8	122		
7	D	4	"	72.0	145		
10	E	4	"	13.2	41		
10	E	5	"	67.3	109		
16	F	5	"	83.1	123		
Oct. 3	G	6	"	15.2	26		
		<hr/>		<hr/>	<hr/>		
		6		458.0	813		

H-7018

LIST OF SIGNALS

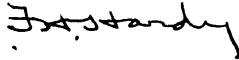
AT	Triang.	1943
AID	"	1943
ALAD	"	1943
ASTRO	"	1944
BLACK	"	1944
BUM	T-8970	
CENT	Triang.	1943
DOME	"	1943
EDDY	"	1944
ENFrance Buoy	Hydro - Volume I	
FEL	T-6970	
FLAG	Triang.	1943
HILL (HUTCH)	"	1944
KRUG	"	1943
LIME	H-6959	
LITTLE	Triang.	1943
NAC	"	1943
NELL	"	1944
NEV	"	1944
OFF	4th Order Triang.	1944
PAR	Triang.	1943
PAT	"	1944
PIN	"	1943
RAYE	"	1944
RIK	"	1943
SPRAY	"	1944
TEM	"	1943
TEMWAC	"	1944
WOW	"	1943

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.

Rae
Lury

TIDE NOTE FOR HYDROGRAPHIC SHEET

18 May 1945

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in
6 volumes of sounding records for

HYDROGRAPHIC SHEET 7018

Locality Chirikof Pt. to Theodore Pt., Attu Island, Aleutian Islands

Chief of Party: R. D. Horne in 1944

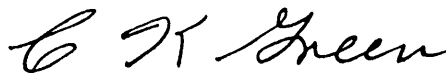
Plane of reference is mean lower low water reading

3.4 ft. on tide staff at Massacre Bay

6.8 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 feet.

Condition of records satisfactory except as noted below:



Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No. **H7018**

Name on Survey												
	A	B	C	D	E	F	G	H	K			
<u>Alaska</u>												1
<u>Aleutian Islands</u>												2
<u>Near Islands</u>												3
<u>Attu Island</u>											U.S.G.O	4
<u>Agattu Island</u>											"	5
<u>Massacre Bay</u>											(location of tide staff)	6
<u>Chirikof Point</u>											U.S.G.B	7
<u>Temnac Bay</u>											"	8
<u>Murder Point</u>												9
<u>Theodore Point</u>											U.S.G.B	10
												11
												12
												13
												14
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												18
												19
												20
												21
												22
												23
												24
												25
												26
												27

Names underlined in red approved
by L. Heck on 6/3/46

(1944 & 1945 work
combined on this report)

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7018**

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	.....	1067
Number of positions checked	.....	110
Number of positions revised	.....	21
Number of soundings recorded	.....	6402
Number of soundings revised (refers to depth only)	.....	32
Number of soundings erroneously spaced	.....	37
Number of signals erroneously plotted or transferred	.....	—
Topographic details	Time	—
Junctions	Time	44
Verification of soundings from graphic record	Time	8

Verification by *J.A. Dinsmore* Total time Date *5/13/46*

Review by *R.H. Carstens* Time Date *6/3/46*

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7018

FIELD NO. EX-4144

Alaska-Aleutian Is., Near Islands, Southeast of Attu I.
Surveyed in July 1944 to June 1945 Scale 1:40,000
Project No. CS-218

Soundings:

808 Fathometer
NMC Fathometer
Dorsey Fathometer

Control:

Sextant fixes on shore signals
and survey buoys

Chief of Party - R. D. Horne and L. C. Wilder
Surveyed by - R. D. Horne, L. C. Wilder, K. G. Crosby,
W. Weidlich, F. B. Quinn, W. F. Malnate and
W. M. Hellman
Protracted by - R. M. Sylar and M. T. Gwinn
Soundings plotted by - R. M. Sylar and M. T. Gwinn
Verified and inked by - T. A. Dinsmore
Reviewed by - R. H. Carstens, June 3, 1946
Inspected by - H. W. Murray

1. Shoreline and Signals

The source of the shoreline and signals is given in the Descriptive Report. The shoreline in pencil is to be used only for identification of land features on this offshore survey.

2. Sounding Line Crossings

Depths at crossings are in satisfactory agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were satisfactorily drawn except in several foul areas which are still to be developed.

The bottom in this area is irregular. Two offshore shoals are developed, together with the approaches to several foul areas.

4. Junctions with Contemporary Surveys

A satisfactory junction was made with H-6939 (1943) on the north.

Depths from H-6936 (1943) which are not in disagreement with present depths have been transferred to the present survey in the overlapping area. Though agreement in depth with H-6936, scale 1:100,000, is in general satisfactory, it is not adequate to obtain exact duplication of curves on the two surveys. Depth curves should be charted from the present survey.

The junctions with H-7015 (1944) on the northwest and H-6869 (1945) on the west will be considered when those surveys are verified.

5. Comparison with Prior Surveys

No prior surveys of this area have been made by the Bureau.

6. Comparison with Chart 9128 (Latest print date 1/12/46)
Chart 9129 (Latest print date 11/24/45)
Chart 9198 (Latest print date 2/2/45)A. Hydrography

The charted hydrography within the limits of the present survey originates with H-6939 (1943-44) and H-6936 (1944) after verification and review; with H-7015 (1944) and the present survey before verification and review and with blueprints 37848 (1944) and 38970 (1944) showing advance information of surveys by this bureau and by the U. S. Navy.

The following depths charted from the blueprints are superseded by present depths and should be removed from the chart.

<u>Depth</u>	<u>Lat.</u>	<u>Long.</u>	<u>Chart</u>	<u>Bp.</u>	<u>Gen. Depths</u>
32	52° 47.4'	173° 34.2'	9198	37848	40 fms.
33	52° 44.42'	173° 25.4'	9198,9128	37848	43 fms.
13	52° 43.3'	173° 12.9'	9198,9128	37848	33 fms.
10	52° 43.7'	173° 13.0'	9198,9128	37848	25 fms.
27	52° 43.2'	173° 11.65'	9198,9128	38970	err. in scan.
12	52° 37.5'	173° 08.9'	9198	37848	28 fms.

Other depths charted from the blueprints differ with present depths by as much as 2 fms. and should be superseded by present depths when the charts are recompiled.

The sunken rock charted on chart 9198 in lat. 52° 45.9', long. 173° 27.0' should be deleted to make that chart agree with chart 9128.

The sunken rock charted on chart 9198 in lat. 52° 44.0', long. 173° 23.3' from bp. 37470 (1944) falls in present depths of about 40 fms. The rock is probably out of position and should be removed from the chart.

Other sunken rocks and rocks awash charted in areas sparsely developed on the present survey should be retained pending additional investigation.

B. Aids to Navigation

As the aids to navigation located on the present survey have subsequently been changed in character or position, a comparison with the present chart would serve no useful purpose.

7. Condition of Survey

The field plotting was accurately accomplished.

The sounding records and Descriptive Report are complete and comprehensive.


8. Compliance with Instructions for the Project

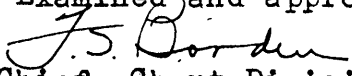
The survey satisfactorily complies with the Instructions except that only one bottom characteristic was taken.

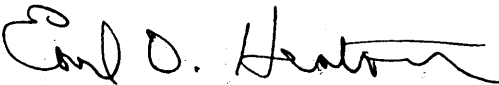
9. Additional Field Work Recommended

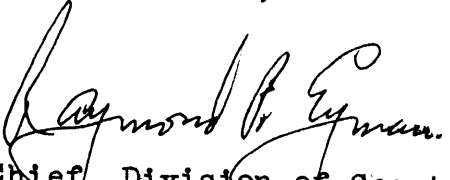
Several areas apparent on inspection have not been surveyed. The boat sheet has been returned to the field for completion of this work. Development of the following soundings should not be overlooked:

<u>Sounding</u>	<u>Latitude</u>	<u>Longitude</u>	
8.7 fms.	52° 45.95'	173° 20.6'	Developed on M-6939 Add Wk 1946
8.0 fms.	52° 44.8'	173° 21.5'	" "
8.6 fms.	52° 45.14'	173° 15.9'	Add Wk 1946 Done 1947


Chief, Nautical Chart Branch

Examined and approved:

Chief, Chart Division


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

^{1944 work}
Partially applied to Ch. 912.8 before Ver. & review - JTW 5/5/45
" " " " 9198 " " " " JTW 5/8/45

Partially applied Ch 912.8 after Ver & review - HWB - 2/7/51 - Critical edjs only

Comp. App'd. to Recm 912.8 after V. & R. J.H. Eaton 8-10-55

3ma

" " " " 912.8 " " " J.H. Eaton 4/7/59

Partly app'd det 8865 " " " *Subrogay* 5-9-63 (Revised 11 sub 2 cases)

7018

7018

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. _____ Office No. H-7018 - Additional Work

LOCALITY

State ALASKA

General locality Near Islands - Attu Island

Southeast of Attu I.

Locality South of Massacre Bay

1945

CHIEF OF PARTY

L. C. WILDER

LIBRARY & ARCHIVES

DATE FEB 6 1946

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7018

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-7018 - Additional work

Field No. _____

*Combine with 1944 work
for title*

State Alaska - Aleutian Is.

General locality Near Islands

Locality Southeast of Attu I.
South side of Attu Island off Massacre Bay

Scale 1:40,000 Date of survey 9 & 21 June 1945

Instructions dated 16 April 1943

Vessel DERICKSON

Chief of party L. C. Wilder

Surveyed by Ships Officers
L. C. Wilder

Soundings taken by ~~SONAR~~ graphic recorder, ~~SONAR~~

Protracted by Marion T. Gwinn

Soundings penciled by Marion T. Gwinn

Soundings in fathoms ^{and tenths} ~~XXX~~ at ~~XXXX~~ MLLW

REMARKS: _____

Plotted by the Seattle Processing Office.

DESCRIPTIVE NOTES

To Accompany

Hydrographic Sheet H-7018

Scale 1:40,000

Approaches to Massacre Bay, Attu Island, Alaska

L. C. Wilder, Chief of Party

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

1945

This sheet was turned over to the Commanding Officer of the DERICKSON in June, 1945, by the Commanding Officer of the EXPLORER for completion if weather was favorable. It was returned incomplete to the EXPLORER in August when the DERICKSON was assigned a new project. No work was done on the sheet after 21 June 1945.

Hydrography on this sheet has not been completed. There remains from three to five good days' work with launch to complete this area. Since this work should be done by launch and due to the distance offshore and foulness of the area, work can be accomplished only in the best of weather and with a clear atmosphere.

This survey covers a foul area south of Massacre Bay between Latitudes 52°-42' and 52°-46'. There is also a small area in Latitude 52°-45½' and Longitude 173°-30' which remains to be done. The west end of the principal area (about one mile east of CENT(USN)1943) is a foul area and should be sounded out; also at the southwest part of the principal area lines should be run in the area of blue soundings ^{on part sheet} (transferred from 1:100,000). The entire area is incomplete as but two days' work was accomplished. It appears to me that some of the foul area between CENT(USN)1943 and the wreck of the DELLWOOD and northwest thereof may need additional work.

One day's work was accomplished by the ship's launch, using a type 803A depth recorder and standard three point fixes. Also one day's work was accomplished by the ship with the same type of equipment.

A tide gage was in operation in Massacre Bay.

Most of the signals for use in the launch had to be relatively high in elevation and large in area. Cuts will be found to the following stations in volumes for sheet ^{H. 6939 (1943-45)} Arrow, Rid, Bill, and Sno. Arrow and Sno were snow patches. Rid was a small tip on a ridge and Bill was a large 16' by 16' banner. Row was located on topographic sheet DE-A-45. See Volume 1, Sheet 7018. Signals were cut in on sheet 6939, scale 1:20,000, to get the added accuracy for use on Sheet H-7018. To cut in and plot Sno and Bill, stations used for the fixes were plotted on sheet 6939 in the correct latitude but eastward of their correct longitude. There is a possibility that the EXPLORER'S adjoining sheet westward of Murder Point may be used to plot these cuts. Bill and Row may be recovered next season. Rid may also be recovered, possibly with a check cut as it is not easy to identify at first hand.

Respectfully submitted,


L. C. Wilder, Chief of Party

7013 - Additional Work 1945

TIDE NOTE

A standard automatic tide gage was maintained at Massacre Bay, Alaska, in Latitude 52°-51'N, Longitude 173°-12'E. The observed tides at this station were used for the reduction of all soundings taken on this survey. The height of mean lower low water on the tide staff is 3.6 feet (Director's letter of 24 August 1945, reference 36-mlh). No time or height correction has been applied to the observed tides.

VELOCITY CORRECTIONS - 6 TO 29 JUNE 1945

Ship
SOGA - Velocity of 520 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	---	---
- 0.1	---	5.5
- 0.2	8.6	12.8
- 0.3	12.9	17.3
- 0.4	17.4	21.9
- 0.5	22.0	26.1
- 0.6	26.2	31.0
- 0.8	31.1	39.9
- 1.0	40.0	48.0
- 1.2	48.1	56.1
- 1.4	56.2	---

Launches
SOGA - Velocity of 520 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	0.0	2.7
- 0.1	2.8	8.0
- 0.2	8.1	12.4
- 0.3	12.5	16.9
- 0.4	17.0	21.2
- 0.5	21.3	25.7
- 0.6	25.8	30.1
- 0.8	30.2	39.1
- 1.0	39.2	47.8
- 1.2	47.9	56.2
- 1.4	56.3	---

Ship
SOG -- Velocity of 500 fms/sec.

Corrn. Fms.	From Fms.	To Fms.
0.0	0	61

STATISTICS FOR HYDROGRAPHIC SURVEY H-7018 (1945)

U.S.C. & G.S.S. DERICKSON - Project CS-218

Motorsailer

Vol. No.	Day Letter	Date 1945	No. Sdgs. H.L.	No. Positions	No. of Statute Miles Sdgs.
1	a	9 June	--	63	26.3

Ship DERICKSON

Vol. No.	Day Letter	Date 1945	No. Sdgs. H.L.	No. Positions	No. of Statute Miles Sdgs.
2	A	21 June	--	191	90.6

TOTAL FOR SHEET 254 116.9

Types 808A and NMC Depth Recorders used giving a continuous profile.

Area covered by the survey = 6.2 sq. statute miles.

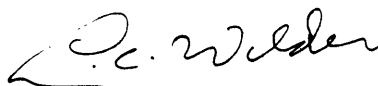
APPROVAL SHEET

28 November 1945

The Records and boat sheet for Survey No. H-7018 are approved. ✓

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

The survey is not complete. See Descriptive Notes for recommendations.



L. C. Wilder,
Chief of Party.

Seattle Processing Office Notes

Datum-

USN GANNET 1934. This datum depends on the assumption that Station CHIC on Chichagof Harbor has the same coordinates as the Navy Astronomical Station. It is the datum which has been used for the Near Islands sheets of the current project.

Control-

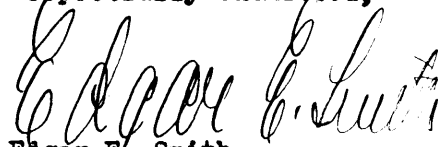
The basic control is second order triangulation of 1943 and 1944. Station OFF is a fourth order point. Topographic signals were taken from T-6970 (EX-B-44). The four hydrographic signals ARROW, BILL, RID, and SNO were plotted from the sextant cuts directly on H-7018 and not on H-6939 (scale 1:20,000) as suggested by the field party, as that smooth sheet was not available. A new 1:20,000 scale sheet of the area from Chirikof Point westward is being prepared and some of these signals will be plotted on that sheet.

We note that development in this area is not complete but call attention to the following features:

<u>Latitude</u>	<u>Longitude</u>	<u>Position</u>	<u>Fathoms</u>	<u>Remarks</u>
52° 42!2	173° 14!8			Breakers in this vicinity. Note 2 cuts from 12A & 16A. Refer to H-6936. The vicinity is broken and irregular.
52 43.6	173 15.4			Breaker. This falls near the ^(distant com.) position of a breaker located on H-6936. Probably the better position of identical breaker.
52 42.2	173 15.2	18-19a	3.9 ✓	
52 43.2	173 16.8	69-70A	7.2 ✓	
52 42.6 ³	173 16.0	8-9a	7.6 ✓	
52 45.1	173 15.9	138-139A	8.6 ✓	
52 44.9	173 15.0	150-151A	14.0 ✓	
52 43.4	173 18.8	62-63A	9.0 ✓	This is the shoalest point found on a long shoal area.
52 44.8	173 21.5	34-35a	8.0 ✓	

above shoals added to chart 9198 before V.L.R. J.M.A. 2-11-46

Respectfully submitted,



Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Approved and Forwarded,



F. B. T. Siems
Officer in Charge,
Seattle Processing Office.

Ham

TIDE NOTE FOR HYDROGRAPHIC SHEET

February 15, 1946

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7018 (add'l work)

Locality South of Massacre Bay, Attu Island, Aleutian Islands, Alaska

Chief of Party: L. C. Wilder in 1945
Plane of reference is mean lower low water, reading
3.4 ft. on tide staff at Massacre Bay
6.8 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 feet.

Condition of records satisfactory except as noted below:

Ham
atty Chief, Division of Tides and Currents.

NAUTICAL CHARTS BRANCH

SURVEY NO. H7018 (1945 work)

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2-11-46	9198	J.M.A.	Before After Verification and Review
2-11-46	8865	S.M.A.	Before After Verification and Review
8/7/51	9128	H.W. Burgoyne	<i>Partially Applied - Critical sdys only</i> Before After Verification and Review
8-10-55	9129	J. Heaton	<i>Comp. Applied to Recor.</i> Before After Verification and Review <i>3ma</i>
^{Reconst} 6/1/59	9128	J.W. & J.H.E.	Before After Verification and Review
9-14-92	16423	Ed Martin	Before After Verification and Review <i>new chart</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
			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
			Before After Verification and Review

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.

7018

Additional work

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

8102

Additional work
Additional work

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
SUPPLEMENTAL	
DESCRIPTIVE REPORT	
Type of Survey	HYDROGRAPHIC Additional work
Field No.	H-7018
Office No.	H-7018
LOCALITY	
State	Alaska
General locality	Aleutian Islands
Locality	Approaches to Massacre Bay, Attu I.
194 6	
CHIEF OF PARTY	
Kenneth G. Crosby	
LIBRARY & ARCHIVES	
DATE	JAN 6 1947

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-7018~~ Additional Work

Field No.

State Alaska

General locality Aleutian Islands

Locality Approaches to Massacre Bay; Attu Is.

Scale 1:40,000 Date of survey 6/23/46 to 7/14/46

Instructions dated 15 March 1946

Vessel Ship Patton

Chief of party Kenneth G. Crosby

Surveyed by Ships Officers
~~Topo from previous surveys~~

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

Protracted by D. B. Small

Soundings penciled by D. B. Small
and Tenths

Soundings in fathoms ~~feet~~ at ~~MLW~~ MLLW

REMARKS: Plotted in the Washington Office

To adequately show a true representation of the shoals developed by this
additional work; the work should be plotted on a sheet with a 1:10,000
scale or less.

COPY

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
WASHINGTON 25

839-bdh

5 December 1946

To: Supervisor, Northwestern District
U. S. Coast and Geodetic Survey
400 Insurance Building
Seattle 4, Washington

Subject: Additional work, Massacre Bay, Alaska

In response to your request of 26 November, the sounding record data pertaining to additional work on hydrographic surveys No. H-6939 and H-7018 covering the subject locality may be forwarded to this office for plotting on the basic smooth sheets.

(s) J. H. Hawley
Acting Director

SUPPLEMENTAL DESCRIPTIVE REPORT TO ACCOMPANY

SHEET - H-7018

APPROACHES TO MASSACRE BAY

ATTU ID., ALASKA

JULY - AUGUST 1946

SCALE 1:40,000

SHIP PATTON

K. G. CROSBY, CMDG

PROJECT:

The additional work on Sheet H-7018 was done in accordance with the Director's letter, dated 15 March 1946 (additional Field Work in the approaches to Massacre Bay), and the Liaison Officer's letter dated 28 March 1946 (Supplemental Instructions (1)).

SURVEY LIMITS AND DATES:

The area covered is the foul ground area, centered at Lat. $52^{\circ} - 44'$ and Long. $173^{\circ} - 16'$ and development of spots as required. The work was begun on 23 July and completed on 14 August 1946.

VESSEL AND EQUIPMENT:

The hydrography was done by the Ship PATTON, supplemented by a 20' dory for drift sounding over shoals.

TIDE STATION:

The tide station at Massacre Bay was used for the reduction of soundings.

CONTROL STATIONS:

Triangulation Stations RAYE, LITTLE, FLAG, and DOME, all 1943, and Topographic Station "Lime" were used for control in three point sextant fixes. *Also Δ Black 1944*

SOUNDINGS:

Soundings were obtained with the Dorsey Fathometer with an 808 Depth Recorder running simultaneously for verification. As both fathometers are calibrated for 820 fms/sec., the initial of the 808 was set to agree with the Dorsey. Hence the same density and salinity corrections apply to each fathometer. The fathograms were scanned at night and some additional soundings were recorded in the sounding volume with green pencil.

Hand lead soundings were taken on shoals, and wire soundings were recorded when obtaining bottom specimens.

SERIAL TEMPERATURES:

Serial temperatures and salinities were obtained on 26 July 1946, at Lat. 52° - 45' .5 N., Long. 173° - 25' .6 E., to a depth of 43 fathoms. The velocity corrections derived from these observations were applied to the entire period.

INVESTIGATION OF SHOALS:

The rocks charted in the vicinity of Lat. 52° - 45' .8, Long. 173° - 26' .9 and Lat. 52° - 45' .4, Long. 173° - 29' .7 were investigated. (See Paragraph 7 of Director's Letter dated 15 March 1946, "Additional work in the approaches to Massacre Bay").

not charted on latest print.
sunken rock displayed by present Add Wk.

Two close systems of sounding lines, 3/4 miles long, were run normal to each other in the vicinity of the charted rock at Lat. 52° - 45' .8, Long. 173° - 26' .9 with no indication of any shoal. The bottom is quite regular with depths of 32 fathoms on the inshore ends of lines to 44 fathoms on the offshore ends, with 41 fathoms in the immediate position of the charted rock. This rock has recently been deleted from Chart 9128, and it is recommended that it be considered as non-existent.

Chart No. 9128 shows two sunken rocks, marked by kelp 0.3 miles apart in the vicinity of Lat. 52° - 45' .4, Long. 173° - 29' .7. Two close systems of sounding lines were run over this area by the Ship PATTON to locate the shoal indications. A buoy was then dropped at three shoals and the ship allowed to drift over the shoals numerous times taking hand lead and fathometer soundings.

sunken rocks
not charted
by present

A ~~7.3~~^{7.0} fathom hand lead and fathometer sounding was obtained at the vicinity of the Westerly of the two rocks, at Lat. 52° - 45' .25, Long. 173° - 29' .5 as the least depth. This spot was marked by a few streamers of kelp. As the PATTON maneuvered over this area with safety, and as there was no indication of the sea breaking or "humping", it is recommended that the sunken rock symbol be deleted and a ~~7.4~~^{7.0} fathom sounding be charted. The kelp symbol should be retained.

Sunken Rock to be superseded by present depths

A ^{5.4}~~3.6~~ fathom fathometer sounding was obtained in the vicinity of the Easterly of the two charted rocks between Positions 15 - 16 "B" day at Lat. 52° - 45'.35 Long. 173° - 29'.9.⁸⁵ A buoy was dropped at the spot and one hour spent in drift sounding. The least depth that could be obtained with the hand lead was ~~4.6~~ fathoms. There was no indication of the sea breaking or "humping" at this time. This spot is also marked by kelp. It is recommended that the sunken rock symbol be deleted from the chart and a ~~3 1/2~~ fathom sounding be charted in its stead. The kelp symbol should be retained.

Sunken rock to be superseded by present depths

While investigating the above shoal, a third shoal of ^{4.2}~~3.1~~ fathoms was found at Lat. 52° - 45'.6, Long. 173° - 30'.65 which falls near an 8-1/4 fathom sounding on the previous survey. This shoal was also investigated by drift soundings with a least depth of ~~11-1/2~~ fathoms on the hand lead. It is recommended that the ~~fathometer~~ sounding of ~~3.1~~ fathoms be plotted. This shoal was also marked by kelp.

Sunken rock charted - to be superseded by present depths

While running to Agattu Island on 26 August 1946, it was noted that the last two above mentioned shoals broke about half the time. The wind was WSW, Force 2, but there was a heavy Easterly swell running, estimated at ten feet. It is recommended that the word "Breaks" be retained on Chart 9198 and be added to Chart No. 9128.

(Director's letter 15 March 1946)

The first rock mentioned in Paragraph 7 at Lat. 52° - 45'.2, Long. 173° - 21'.6 was investigated on Sheet 6939 and will be discussed in the report of that sheet.

rock disproved

The 13 fathom sounding in Lat. 52° - 43'.6, Long. 173° - 12'.7, Paragraph 2 of Director's Letter, was also developed by running two systems of sounding lines normal to each other, and by drift sounding over the area after dropping a marker buoy. The least depth obtained by the fathometer was 8.4 fathoms and 10.0 fathoms with the hand lead; Positions 64C and 67C. It is recommended that the 8.4 fathom sounding be plotted.

8.1 ok.

The remainder of the investigations outlined in the Director's letter dated 15 March 1946, were made on Sheet H-6939.

The triangular-shaped area centered at Lat. 52° - 44' N. and Long. 173° - 16' E., was thoroughly sounded. The rocks at Lat. 52° - 42'.3, Long. 173° - 14'.7 are plainly visible and always breaking. These rocks were located by sextant cuts from a dory close to. The general area is from three to four fathoms in depth and marked by kelp.

A close system of lines was run over the shoal at Lat. 52° - 43'.76, Long. 173° - 15'.2 with a least depth of 2.7 fathoms on both fathometers. The sea was especially calm during this work. However, the sea picked up during the day, and while sounding on adjacent lines, it was noted that the sea broke over this spot. The notation on the chart should be: "Breaks in Moderate Sea". The spot is marked by kelp.

The above mentioned rocks and breaker agree with the positions as shown on Chart 9198. ✓

The remaining shoals are self-evident on the sheet. ✓

AGREEMENT WITH PREVIOUS WORK:

The soundings are in agreement with other hydrography on the sheet with the exception of some soundings taken on "green" a-day (small case); apparently in 1945. These soundings appear to be considerably shoaler in places than any of the other work, especially along the western limits. *Soundings on smooth sheet are in agreement. Boat sheet positions on a-day (green) are displaced.*

It is recommended that the positions of these soundings be investigated on the smooth sheet to determine if there was an error in identifying signals. The signals were definitely identified on this year's work by taking a "cut" to a fourth signal.

BOTTOM SPECIMENS:

Bottom specimens were obtained in the areas where sounding was done. ✓

REMARKS:

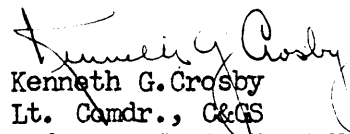
It is believed that all work was accomplished on this sheet that was called for in the supplemental instructions, and that no additional work is required. ✓

Kenneth G. Crosby
Kenneth G. Crosby
Lt. Comdr., C&GS
Cmdg., USC&GSS PATTON

TIDAL NOTE TO ACCOMPANY SHEET H-7018

Tide reducers were obtained from the Standard Tide Gage located in Massacre Bay, Latitude $52^{\circ} - 50'.5$ North, Longitude $173^{\circ} - 11'.6$ East.

MLLW on staff as furnished by the Ship EXPLORER is 3.4 feet.
No time or range corrections were applied.


Kenneth G. Crosby
Lt. Comdr., C&GS
Cmdg., USC&GSS PATTON

STATISTICS FOR ADDITIONAL WORK ACCOMPLISHED ON SHEET H-7018

SHIP PATTON K. G. CROSBY CMDG.

1946

DATE 1946	Vol. No.	Day Ltr.	H.L. & Wire Sndg.	Pos.	Stat. Miles
23 July	1	A	-	92	28.1
24 July	1	B	5	110	32.0
25 July	1	C	3	80	20.3
13 Aug.	1&2	D	2	170	81.1
14 Aug.	2	E	11	207	84.0
Totals:			21	659	245.5
Area in Square Statute Miles:					9.0

VELOCITY CORRECTIONS FOR DORSEY AND 808 FATHOMETERS
 CALIBRATED FOR 820 FMS/SEC. INSTALLED ON SHIP PATTON

CORRECTION fms.	DEPTHS fms.
0.0	0 - 4.0
-0.1	4.1 - 10.2
-0.2	10.3 - 16.0
-0.3	16.1 - 21.0
-0.4	21.1 - 26.0
-0.5	26.1 - 31.5
-0.6	31.6 - 36.5
-0.7	36.6 - 41.5
-0.8	41.6 - 46.0
-0.9	46.1 - 51.0)
-1.0	51.1 - 56.0) interpolated
-1.1	56.1 - 61.0)

COPY

cc to: C.O., EXPLORER
" SURVEYOR
" PATTON ✓
Washington 25

15 March 1946

To: Captain F. B. T. Siem
U. S. Coast and Geodetic Survey
1500 Westlake Avenue, North
Seattle 9, Washington

Subject: Additional field work in the approaches to Massacre Bay

In assigning the field work to the parties to be working in the vicinity of Attu Island, this year, you will please issue instructions to have the following additional work accomplished in the approaches to Massacre Bay, except in instances where this work was completed last year:

*Items marked
* pertain
to present
survey*

1. Additional sounding lines should be run in the vicinity of lat. $52^{\circ} 46.7'$, long. $173^{\circ} 17.9'$ to reduce the general spacing of about 200 meters in this area. This area is relatively unimportant but the additional lines are desirable in making this a basic survey.
2. Develop the 13 fm. sounding in lat. $52^{\circ} 43.6'$, long. $173^{\circ} 12.7'$. *
3. Develop the 5-1/6 fm. sounding in lat. $52^{\circ} 47.3'$, long. $173^{\circ} 14.6'$.
4. Develop the 12 fm. sounding in lat. $52^{\circ} 49.07'$, long. $173^{\circ} 27.8'$.
5. Develop the 4-4/6 fm. sounding in lat. $52^{\circ} 45.6'$, long. $173^{\circ} 20.6'$.
6. Investigate the 5-1/2 fm. sounding charted in lat. $52^{\circ} 47.9'$, long. $173^{\circ} 17.0'$.
7. Investigate rocks charted in the vicinity of lat. $52^{\circ} 45.2'$, long. $173^{\circ} 21.6'$; lat. $52^{\circ} 45.8'$, long. $173^{\circ} 26.9'$, and lat. $52^{\circ} 45.4'$, long. $173^{\circ} 29.7'$. The rock charted in the vicinity of lat. $52^{\circ} 45.8'$, long. $173^{\circ} 26.9'$, is probably out of position and has recently been removed from chart 9122. [The rock in lat. $52^{\circ} 45.1'$, long. $173^{\circ} 21.4'$ from blue print 37470 was reported by Navy patrol vessels. *
8. Develop the 4-2/6 fm. sounding in lat. $52^{\circ} 48.55'$, long. $173^{\circ} 21.5'$.
9. Develop the 2-1/2 fm. sounding in lat. $52^{\circ} 46.1'$, long. $173^{\circ} 17.4'$.
10. Develop the 3 fm. sounding in lat. $52^{\circ} 46.17'$, long. $173^{\circ} 16.7'$.
11. Develop the 2-1/2 fm. sounding in lat. $52^{\circ} 47.12'$, long. $173^{\circ} 15.47'$.

Boat sheet No. 6939 covering the approaches to Massacre Bay is being forwarded to you to be used on this development work.

L. O. Colbert
Director

FRTS/tbj

28 March 1946

To: The Commanding Officer, USCGC EXPLORER

Subject: Supplemental Instructions (I)

Reference: (a) Instructions (cumulative) of 21 March 1946.

1. While engaged on Operations III and V of reference (a) and while at NAJ Atta for supplies, etc., you will, when weather and circumstances permit, undertake field work in the vicinity of Massacre Bay as follows:

(a) Additional work in the approaches to Massacre Bay as called for in the Director's letter of 15 March 1946, except where this work was completed in 1945. Note: Items 4 and 8 of the work listed in the letter was apparently accomplished by the DEWICKSON in 1945, see 2' boat sheets, DE-4338, (1945). Photostat copies of smooth plotting of DE 6939 (1945) will be furnished later.

(b) Completion of foul ground area on S-7018, about 8 miles south of Massacre Bay. The Washington Office has been requested to furnish you with a photostat of S-7018 (1945-1946) and boat sheets (see my letter of 8 March 1946). *

(c) Investigation to confirm or disprove the existence of the 3-3/4 fathom shoal charted in Massacre Bay in latitude $68^{\circ} 49.00'$, longitude $178^{\circ} 18.2'$. This sounding originated with blueprint #97000 and may possibly be based on unrecorded information.

(d) Additional bottom specimens in the area of Massacre Bay.

2. With a view to prosecuting surveys to advantage, the Commanding Officer of the EXPLORER is authorized to assign part of the above work in sub-paragraphs (a), (c), and (d) to the SURVEYOR, and by copy of these instructions the Commanding Officer of that vessel will, when weather and circumstances permit, undertake the work assigned while engaged on Operations III and V of reference (a) and while at NAJ Atta for supplies, etc.

cc to: Director, USCGC
Supervisor, E. W. District
C. G., SURVEYOR and G. C., CAPTAIN ✓

F. B. T. Sless

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

10 January 1947

Division of Charts: H. W. MURRAY

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7018 (additional work)

Locality - Approaches to Massacre Bay, Attu Island, Aleutian Islands,
Alaska.

Chief of Party: K. G. Crosby in 1946.
Plane of reference is mean lower low water, reading
3.4 ft. on tide staff at Massacre Bay
6.8 ft. below B. M. 1

Height of mean high water above plane of reference is 3.3 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. H- 7018 Ad. Wk.

Records accompanying survey:

Boat sheets ²....; sounding vols. ¹.....; wire drag vols.;
bomb vols.; graphic recorder rolls ¹.....;
special reports, etc. T.S.Obs. & Velocity Corrections with Desc. Rept. of
..... H- 6939 Ad. Wk.

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

Number of positions on sheet		659	
Number of positions checked		83	
Number of positions revised		8	
Number of soundings revised (refers to depth only)		70	
Number of soundings erroneously spaced		42	
Number of signals erroneously plotted or transferred		—	
Topographic details	Time	—	hrs
Junctions	Time	24	"
Verification of soundings from graphic record	Time	16	"

Verification by... *A.P. STIRNI* Total time 89 hrs. Date 6/17/47

Reviewed by... *R.H. Cavatone* Time 16 hrs. Date 7/18/47

REVIEWERS REPORT ON H-7018 ADDITIONAL WORK 1946

No formal review is considered necessary for this additional work.

The area in the vicinity of lat. $52^{\circ} 45.4'$, long. $173^{\circ} 30.0'$, was adequately developed. The sunken rock symbols charted from Bp. 37470 (1943) should be superseded by the least depths on the present survey.

The sunken rock formerly charted in lat. $52^{\circ} 45.8'$, long. $173^{\circ} 26.9'$ from Bp. 37470 (1943) is disproved by the present investigation and should be considered nonexistent. *Not in Cl 9120*

The least depth on the 13-fm. shoal (charted) in lat. $52^{\circ} 43.57'$, long. $173^{\circ} 12.7'$, has been decreased to 8.1 fms. by the present development.

The 10 fms. charted in lat. $52^{\circ} 43.59'$, long. $173^{\circ} 12.97'$, and the 13 fms. charted in lat. $52^{\circ} 43.28'$, long. $173^{\circ} 13.0'$ fall in present depths of about 30 and 35 fms., respectively. These soundings are from the boat sheet of H-6936 and are probably out of position. They should be superseded by present depths.

The area in the vicinity of lat. $52^{\circ} 43.6'$, long. $173^{\circ} 15.4'$ was adequately developed and the least depth determined. The two sunken rocks charted from Bp. 37470 (1943) in this vicinity should be superseded by present depths.

ADDITIONAL FIELD WORK RECOMMENDED

The shoal area in the vicinity of lat. $52^{\circ} 44.7'$, long. $173^{\circ} 22.7'$, was not developed. This area is marked by a sunken rock and kelp. A special return to this locality is not considered warranted at this time.

Inspected by:

H. W. Murray

Submitted by:

R. H. Carstens - 7/18/47

NAUTICAL CHARTS BRANCH

SURVEY NO. 117018 Additional work

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/17/47	9198	H. F. Stegman	Partial Before After Verification and Review Added 6 critical sds from book sheet (3, 6, 8, 9, 9, 6 $\frac{3}{4}$)
10/16/50	9102	JHE	Before After Verification and Review
8/7/51	9128	H. K. Burgoyne	Partially Applied - Critical sds only Before After Verification and Review
8-10-55	9129	J. Eaton	Comp. applied to Recon Before After Verification and Review 2711 W
6/1/59	9128	JFW & JHE	Before After Verification and Review
5-8-63	8865	W. Bogoye	Before After Verification and Review ^{Draw} Partly appd Revised 11 sds 2 curves
			Before After Verification and Review
			Before After Verification and Review
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			Before After Verification and Review

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.