

7040

Diag'd. on Diag. Ch. No. 8864

Form 504	
U. S. COAST AND GEODETIC SURVEY	
DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	Hydrographic
Field No. Su-1145	Office No. H-7040
LOCALITY	
State	Alaska-Aleutian Islands
General locality	Anchitka Island
Locality	South Bight and Approaches
1945	
CHIEF OF PARTY	
C. D. Meaney, S.S. Surveyor	
LIBRARY & ARCHIVES	
DATE	

7040

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-7040

Field No. SU 1145

State ALASKA - Aleutian Islands

General locality Amchitka Island
~~ALEUTIAN ISLANDS~~

Locality South BIGHT - and Approaches
~~S. BIGHT - AMCHITKA ISLAND~~

Scale 1:10,000 Date of survey June 1945

Instructions dated 3 February 1938

Vessel USC&GSS SURVEYOR

Chief of party C. D. Meaney

Surveyed by C. D. Meaney, R.C. Rowse, W. R. Porter

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

Protracted by Christine N. Hillman

Soundings penciled by Christine N. Hillman

Soundings in fathoms ^{and tenths} ~~feet~~ at MLLW ~~MLLW~~ MLLW

REMARKS: Anchorage Chart at request of U.S. Navy

Processed in the Seattle Processing Office.

DESCRIPTIVE REPORT

To ACCOMPANY

HYDROGRAPHIC SURVEY H-7040 (SU-1145)

SOUTH BIGHT AND APPROACHES, AMCHITKA ISLAND

ALEUTIAN ISLANDS

1945 - C.S. 218

Scale: 1/10000

Chief of Party: C.D. Meaney, Commanding Ship SURVEYOR 1945

Field work by: C.D. Meaney, R.C. Rowse and Wilbur R. Porter

A. PROJECT:

This survey was executed under Instructions for Project C.S. 218 dated 3 February, 1938, Supplemental Instructions dated 16 April, 1943 and 1 February, 1944; Instructions issued by Capt. F.B.T. Siems dated 5 May, 28 May and 11 July, 1945. This work was requested by the U.S. Navy. The purpose of the survey was to develop an anchorage secure against northerly weather and convenient to Constantine Harbor.

B. SURVEY LIMITS AND DATES:

All of South Bight and its southerly, easterly, and westerly approaches were surveyed. Latitude $51^{\circ} 19' N$ marks the southerly limit, Longitude $170^{\circ} 24' E$ the easterly and Longitude $179^{\circ} 18' E$ the approximate westerly limits. The work was accomplished during the latter part of June.

C. VESSELS AND EQUIPMENT:

The SURVEYOR and launches Nos. 2 and 4 were used to make the survey, the inshore work being done by the launches and the offshore by the SURVEYOR. The launches based from the ship.

The turning radius of the SURVEYOR is approximately two hundred fifty meters and that of the launches about fifteen meters. The ship used the Dorsey III No. 40, supplemented by either type 808 recorder No. 59 or the R.C.A. Type N.M.C. No. 52 for verification. Type 808 recorder No. 52 was used in launch No. 4 and Nos. 46 and 59 were used in launch No. 2.

D. TIDE AND CURRENT STATIONS:

All data for tide reducers was obtained from the portable automatic gage operated in South Bight from June 28 thru July 5, 1945. Tide reducers on those days this gage was not in operation were obtained by applying range and time correction to the standard gage at Constantine Harbor.

No current stations were occupied.

E. SMOOTH SHEET:

The smooth sheet will be constructed and plotted by the Seattle Processing Office.

F. CONTROL STATIONS:

Triangulation before 1945 and additional triangulation executed in 1945 supplemented by signals located by topography on ~~T-6988~~ and ~~T-6990~~ were used for control. *(Graphic Control sheets were not registered) See T-5599, T-5600 - S.H.U. - 1/30/51 T-8016 G.C. Desc. Reports are attached*

G. SHORELINE AND TOPOGRAPHY:

To be obtained from air photographs.
Topography is from T-8016 (1934-45)

H. SOUNDINGS:

Standard methods were used to obtain all depths. Soundings obtained by the 808 type recorders in heavy kelp areas were verified by hand lead soundings.

I. CONTROL OF HYDROGRAPHY:

All sounding lines were controlled by sextant fixes.

J. ADEQUACY OF SURVEY:

This survey is considered adequate and complete within the area covered, the anchorage area and approaches there-to being well developed. Sufficient bottom samples were taken to determine the bottom characteristics thru out the anchorage. *bottom characteristic coverage outside of anchorage is very sparse.*

K. CROSSLINES:

Crossings are satisfactory.

L & M. COMPARISON WITH PRIOR SURVEYS AND CHART:

No prior surveys of this character have been made in this area. 8864 is the only chart of the area.

N. DANGERS AND SHOALS:

There are no dangers except close inshore. There is a shoal extending ENE and WSW at the southwesterly approach to South Bight. This shoal, with 9 - 15 fathom, is about one mile in length with kelp patches in the shoaler parts. A least depth of 9 fathom was obtained in Latitude $51^{\circ} 20' N$, Longitude $179^{\circ} 20' SE$. There are several 10 and 12 fathom depths along the axis of the shoal.

There is a least depth of 9 fathoms found in Lat. $51^{\circ} 20.23' N$. Longitude $179^{\circ} 20.7' E$.

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O. COAST PILOT INFORMATION:

See special report submitted for 1945 field season in the Aleutian Islands by Lieut. Comdr. C.D. Meaney.

Excerpts from this report applicable to this area follow:

There is an excellent anchorage on the south coast of Amchitka three miles west of East Cape. This harbor, called South Bight provides excellent shelter for northwest to east northeast storms. The anchorage and approaches to South Bight have been surveyed and preliminary charts are available.

Directions Constantine Harbor - South Bight: From a position 100 yards west of the radar cage buoy in 53 fathoms at the approach to Constantine Harbor proceed north for one half a mile, change course to 90° true for four miles, here change course to 140° true and run seven and one half miles, here change course to 232° true and run five and one half miles then steer 310° true and head for the towers on the highest point of the east part of Amchitka Island. When one and one half miles from land dead ahead and nine tenth of a mile from land on the starboard beam, depth 32 fathoms, head north for an anchorage in twenty fathoms, sand bottom in South Bight.

P. AIDS TO NAVIGATION:

None.

Q. LANDMARKS FOR CHARTS:

Form 567 is attached.

R. GEOGRAPHIC NAMES:

This data to be furnished by the Seattle Processing Office. 817 -

S. SILTED AREAS:

None.

T. BY-PRODUCT INFORMATION:

None.

Z. TABULATION OF APPLICABLE DATA:

Triangulation - Forwarded to Washington Office, Sept. 19, 1945
Copy to Processing Office

Coast Pilot Report - Forwarded to Washington Office

Velocity Corrections:- Forwarded to Processing Office with this report.

Topographic Sheets - Forwarded to Processing office with this report.

Respectfully submitted,

WILBUR R. PORTER
Lt. Comdr., C. & G. Survey

Approved:

C.D. MEANEY
Lt. Comdr., C. & G. Survey
Commanding Ship SURVEYOR

Statistics for Hydrographic Survey H-7040

Day	Date	Vol. No.	No. Pos.	No. Stat. Miles
SHIP				
A	6-21-45	1	91	26.4
B	6-22-45	1	192	58.3
C	6-23-45	1 & 6	135	41.1
D	6-25-45	6	127	42.3
LAUNCH NO. 2				
a	6-22-45	2	219	42.6
b	6-23-45	5	137	23.9
c	6-25-45	5 & 7	101	16.2
d	6-26-45	7	113	16.7
LAUNCH NO. 4				
a	6-22-45	3	154	30.7
b	6-23-45	3 & 4	148	24.9
c	6-25-45	4	85	11.2
d	6-26-45	4	138	18.2
Totals			1735	385.5
Area		12.3 square statute miles.		

TIDE NOTE

HYDROGRAPHIC SURVEY H-7040

Portable Automatic Gage at South Light

Lat. 51° 22.7'N
Long. 179° 22.9'E

Zero of staff is 4.9 below M.L.L.W.

Standard automatic tide gage at Constantine Harbor to June 30.

Lat. 51° 24.8'N
Long. 179° 17.7'E

The zero of the tide staff was 5.0 feet below M.L.L.W.

Standard automatic tide gage at Constantine Harbor after June 30, 1945.

Lat. 51° 29' 49"N
Long. 179° 16' 48"E

The zero of the tide staff is 6.9 feet below M.L.L.W.

Range - 1.3

Time - -30 minutes from Constantine Harbor.

VELOCITY CORRECTIONS

A frequency meter is attached to the R.C.A. Model N.M.C. fathometer. A reading of 60.0 indicates that the speed of the driving arm is correct. A higher reading indicates that the speed is too great and a negative correction should be applied to each sounding. Frequency meter readings between 59.7 and 60.3 indicate an error up to $1/2$ of 1% and no corrections have been made when the frequency meter read within that range.

Signals - Hydrographic Sheet H-7040

Name used in Survey	Origin of Station
Abe	* T-6989
ARMS	Triangulation
BAKER (Control Tower)	"
Bet	T-6989
Bil	T-6989
BOB	Triangulation
Cat	T-6989
CHARLIE (Control Tower)	Triangulation
CHUCK	"
Dog	T-6989
Eat	T-6989
Fat	T-6989
Gap	T-6989
HLM 2	Triangulation
Hop	T-6990
JERP	Triangulation
Jig	T-6989
Keg	T-6990
Kof	T-6989
Lam	T-6989
Lit	T-6990
Luc	T-6989
MALL	Triangulation
Mik	T-6989
MIST	Triangulation
Mop	T-6990
Nap	T-6990
Ned	T-6989
Nip	T-6989
Off	T-6990
ONE (Flag 1)	Triangulation
Pin	T-6989
Pop	T-6989
RAD U.S.E. 1943	Triangulation
Rub	T-6989
Sad	T-6989
TWO (Flag 2)	Triangulation
Vom	T-6989
Wug	T-6989
yak	T-6989
Zem	T-6989

* graphic control sheets were not registered
 Data incorporated in T-2016, T-5899, T-5600
 S.F.D.
 1/24/51

Amchitka Id.

		Recorder No. 52							
Date	Day	2 fms.	5 fms.	7.0 fms.	10 fms.	15 fms.	20 fms.		
6-16-45	a L. 2	0.0	-0.1		-0.1	-0.3			H-7007
"	"	0.1	-0.2	-0.2	-0.3	-0.4			
2-22-45	a L. 4	0.0		-0.1	-0.1				
"	"	0.0		-0.2	-0.3	-0.4	-0.4		
6-23-45	b L. 4	0.0		0.0	0.0	-0.1	-0.2		
"	"	0.1		0.1	0.2	0.2	0.0		No. 1145
6-25-45	c L. 4	0.1		0.1	0.2	0.2			H-7040
"	"	0.1		0.1	0.0	0.2			
6-26-45	d L. 4	0.0		0.0	-0.1				
"	"	0.1		0.0	0.0	-0.1			
6-28-45	a L. 4	0.1		0.0	0.0	0.0			
"	"	0.1		0.0	-0.1	-0.1	-0.2		No. 1245
6-30-45	b L. 4	0.0		0.0	-0.1	-0.2	-0.2		H-7042
"	"	0.1		0.0	-0.1	-0.2	-0.4		
Totals		0.8		-0.2	-0.8	-1.2	-1.5		
Mean		0.06		-0.02	-0.6	-0.1	-0.25		
		Recorder No. 59							
6-27-45	b L. 2	0.0	0.0	0.0	0.0	-0.1	-0.1		
"	"	0.0	0.0		0.1	0.0			
6-28-45	c L. 2	0.1	0.0		0.0	0.0			
"	"	0.2	0.2		0.0				
"	"	0.0	-0.1		0.0	-0.1			H-7007
7-29-45	d L. 2	0.1	0.1		0.0	0.0			
"	"	0.1	0.0		0.0				
6-30-45	e L. 2	0.1	0.0		0.0	-0.1			
"	"	0.0	0.1		0.0				
6-23-45	b L. 2	0.1	0.0		0.1	-0.2	-0.3		
"	"		-0.2						No. 1145
6-26-45	d L. 2	0.1	0.0		0.0	-0.1			H-7040
Totals		0.8	0.1	0.0	0.0	-0.6	-0.4		
Mean		0.07	0.01	0.0	0.0	-0.08	-0.20		
		Recorder No. 46 (No. 1145)							
6-22-45	a L. 2	0.0	-0.2		-0.5(R)	-0.8(R)			
		0.0	0.0						
		Use T. & S. Curves							
								Checked by W.R.P.	
								Comp. by K.B.J.	

Velocity Corrections

Ship SURVEYOR

Dorsey III & 808 Fathometers

Sheets H-7041 (SU-2145), H-7040 (SU-1145), H-7042 (SU-1245)

Amohitka Id.

DEPTH		Fms.
From	To	Corrections
	13.0	-0.2
13.1	21.6	-0.4
21.7	30.5	-0.6
30.6	39.2	-0.6
39.3	47.8	-1.0
47.9	56.5	-1.2
56.6	65.2	-1.4
65.3	73.8	-1.6
73.9	82.5	-1.8
82.6	91.0	-2.0
91.1	100.0	-2.2
100.1	117.0	-2.5
117.1	139.5	-3.0
139.6	162.5	-3.5
162.6	185.5	-4.0

Corrections RCA Model NMC

No Correction 0 - 2000 Fathoms for Red light

+2.2 fathoms for NMC Recorder (Index)

FATHOMETER CORRECTIONS

Launches 2 & 4

808 Recorders

Corrections for Sheets H-7007, H-7040 (SU-1145), H-7042 (SU-1245)

Launch No. 4

Launch No. 2

	Fathometer No. 52			Fathometer No. 59		
	DEPTH		Corrections	DEPTH		Corrections
	From	To		From	To	
Bar Check	2.0	9.0	0.0	0.0	13.6	0.0
	9.1	20.0	-0.2	13.7	20.0	-0.2
T. & S.	20.0	28.7	-0.4	20.0	30.4	-0.4
	28.8	37.5	-0.6	30.5	37.5	-0.6
	37.6	46.2	-0.8	39.4	47.9	-0.8
	46.3	55.0	-1.0	48.0	56.4	-1.0
	55.1	63.5	-1.2	56.5	65.0	-1.2
	63.6	72.2	-1.4	65.1	73.9	-1.4
	72.3	80.8	-1.6	74.0	82.2	-1.6
	80.9	89.8	-1.8	82.3	91.2	-1.8
	89.9	98.4	-2.0	91.3	99.8	-2.0
	98.5	101.0	-2.2	99.9	101.0	-2.2
	101.1	124.0	-2.5	101.1	125.0	-2.5

Form 567
 Rev. March 1935
 Note - landmarks that are on Amchitka I. can not be picked on ch. 8864 until the position of Island is corrected. ^{by values given below}

DEPARTMENT OF COMMERCE
 U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

Seattle, Washington

1938

I recommend that the following objects which have been inspected from seaward to determine their value as landmarks, be charted on (deleted from) the charts indicated.
 The positions given have been checked after listing.

GENERAL LOCALITY	NAME AND DESCRIPTION	POSITION		DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		LATITUDE ° ' " D. M. METERS	LONGITUDE ° ' " D. P. METERS							
	MISS 1915 (5110-lbs structure 30 feet high)	61 22	149 24	6500	Bealaska Tria.	1946				
	North Radio Tower	61 23	179 20	4500	"	"				
	East Radio Tower	61 23	179 20	8000	"	"				
	South Radio Tower	61 23	179 20	6000	"	"				
	Central Radio Tower	61 23	179 20	4000	"	"				
	West Radio Tower	61 23	179 20	2000	"	"				
	BILG 1946 (5110-lbs structure 30 feet high)	61 23	149 24	5400	"	"				
	Highest Radar Tower	61 22	149 24	600	"	"				
	Main Ranger, Baker Ramsey (East end)	61 22	160 28	6000	"	"				
	Radar Tank (Tank on steel frame-work)	61 21	179 13	3400	"	"				
	TOWER 1944, Oglinga	61 36	141 28	1900	"	1944				
	Control Tower - Baker Ramsey	61 22	179 15	5900	"	"				
	Control Tower - Charlie Ramsey	61 22	161 28	4600	"	"				

C. D. BERRY

Chief of Party

Alutian Islands

Marquette

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

LANDMARKS FOR CHARTS

~~TO BE CHARTED~~ STRIKE OUT ONE

~~TO BE CHARTED~~ Beetle, Washington

1935

I recommend that the following objects which have ~~been~~ been inspected from seaward to determine their value as landmarks, be charted on (~~deleted from~~) the charts indicated.
The positions given have been checked after listing.

C. D. MANNING

Chief of Party.

GENERAL LOCALITY	NAME AND DESCRIPTION	LATITUDE		LONGITUDE		DATUM	METHOD OF LOCATION	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
		'	"	'	"							
	Radar Tower, (South Coast Tanager Island)	61	46	105	179	09	097M	Beetle, Tril.	19 <u>35</u>			
	Friend Range, Comestantine Harbor	61	23	770E	179	16	900E	"	"			
	Bear Range " "	61	23	640E	178	16	730E	"	"			
	New Bear Range " "	61	23	680E	179	16	970E	"	"			

This form shall be prepared in accordance with 1934 Field Memorandum, "LANDMARKS FOR CHARTS." The data should be considered for the charts concerned area and not by individual field survey sheets. Information under each column heading should be given.

H-7040

SU 1145

South Bight - Amchitka Island

Seattle Processing Office Notes

Smooth Sheet-

Projection hand made on K & E Paragon paper N-118 (not German).

The inked bits of shoreline, rocks and ledges are from ~~T-6900~~
and ~~T-6990~~. No other shoreline is available. *Shoreline added from T-8016*
G.C. sheets were not registered.
Incorporated in T-8016

Boat Sheet-

This was returned to the field party, being first carefully
examined for information not recorded. ✓

The sheet is fairly open and uncrowded. Arrows are used to
point out important features. The necessary items have been discussed ✓
in the report by the field party.

Respectfully submitted,

Edgar E. Smith

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

H-7040

SU 1145

South Bight - Amchitka Island

Geographic Names Penciled on the Smooth Sheet

Amchitka Island

Pacific Ocean

South Bight

Omega Point

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. T-4888

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. SU-F-45

REGISTER NO. T-6088-1

State ALASKA

General locality AMCHITKA ISLAND

Locality SOUTH BIGHT

Scale 1:10,000 Date of survey June 21, 22, 1945

Vessel SURVEYOR

Chief of party C.D. MEANEY

Surveyed by HCO. FORTIN

Inked by K.B. JEFFERS

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated JULY 11, 1945

Remarks: _____

3 Recoverable
Station cards
submitted
& filed

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DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. 1-~~5284~~

TOPOGRAPHIC TITLE SHEET

The Topographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. SU-G-45

REGISTER NO. ~~T-6930~~

State Alutian Island, Alaska

General locality Amohitka Island

Locality South Bight to East Cape

Scale 1:10,000 Date of survey June 26 & Aug. 7, 1945

Vessel SURVEYOR

Chief of party C.D. Meaney

Surveyed by H.O. Fortin & K.B. Jeffers

Inked by K.B. Jeffers

Heights in feet above _____ to ground to tops of trees

Contour, Approximate contour, Form line interval _____ feet

Instructions dated July 11 and Aug. 5, 1945

Remarks: _____

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET SU-F-45 (Not registered)

SOUTH BIGHT & APPROACHES

INSTRUCTIONS:

This survey was executed in accordance with general instructions for Project C.S. 218, dated 3 February 1938, and specific instructions for Sub-Project 11, dated 16 April 1943 and amended 1 February 1944, 5 May 1945, 28 May 1945 and July 11, 1945.

PURPOSE

Geographic control in South Bight and approaches was necessary to provide control for a hydrographic survey of the anchorage and surrounding vicinity.

DATE OF SURVEY:

The work in South Bight and vicinity was done late in June 1945.

CONTROL:

Second order triangulation was executed by this party in June 1945 and is based on the Unalaska Datum.

METHODS:

The topography was executed on an aluminum mounted sheet at a scale of 1:10,000.

Standard Survey methods were used.

The signals were located by graphic control, supplemented by stadia readings.

Stations Jig, Rub and Nip were marked with standard topographic station marks. Descriptions of these stations were submitted on form 524.

PLACE NAMES:

The geographic names of South Bight and Omega Point have been fully discussed in Descriptive Report SU-G-45.

LANDMARKS FOR CHARTS:

Triangulation MIST, 1945 is fully discussed in Descriptive Report SU-G-45.

6988b

DISCREPANCY

Rock on T-6928 a

A check on the position of two rocks lying approximately 0.4 mile Northwest of Constantine Point was required as noted on boat sheet No. H-7007. Four cuts were taken to the inshore rock which is awash at M.L.L.W. This position is in agreement with the topographic location shown in the above mentioned boat sheet. Breakers appeared occasionally over the sunken offshore rock but not with sufficient frequency to permit its location. The positions of these rocks were verified by the hydrographic party.

Complete discussion in D.R. of H-7007 Add wk 1945

Junctions with previous surveys in Constantine Harbor are satisfactory.

PLACE NAMES

No additional place names are required.

Respectfully submitted,

Karl B. Jeffers.

KARL B. JEFFERS
Lt. Comdr., C. & G. Survey

Approved:

C.D. Meaney
C.D. MEANEY
Lt. Comdr., C. & G. Survey
Comdg. Ship SURVEYOR

This survey has been incorporated in their photo compilation of T-8016. The signals have been compared with H-7040. No further review by the Hydrographic Survey Section is necessary at the present time.

R.H. Carstens

10/27/45

DESCRIPTIVE REPORT TO ACCOMPANY

TOPOGRAPHIC SHEET SU-G-45 (*Not registered*)

INSTRUCTIONS

This survey was executed in accordance with general instructions for Project CS-218, dated 3 February 1938, and specific instructions for Sub-Project 11 dated 16 April 1943 as amended 1 February 1944, 5 May 1945, 28 May 1945 and July 11, 1945. The work near East Cape was executed under instructions contained in a dispatch dated 5 August 1945.

PURPOSE

Topography in the vicinity of South Bight was necessary to provide control for hydrographic survey of the anchorage. The survey near East Cape was done to provide data necessary for salvage operations. The survey also provides control for aerial photographs of the area.

DATE OF SURVEY

The work in the vicinity of South Bight was done late in June 1945, and that near East Cape on 7 August, 1945.

CONTROL

Second order triangulation was executed by this party in June 1945 and is based on the Unalaska Datum.

METHODS

The topography was executed on an aluminum mounted sheet at a scale of 1:10,000.

Standard Survey methods were used.

The signals were located by graphic triangulation supplemented by stadia readings.

The Corp of Engineers furnished a small "Weasel" and driver to assist the party at East Cape. The vehicle was designed for two passengers, however, it was used to carry a party of five, including the driver, and all the necessary gear. This part of the island is very rough, the ground is covered by small rocks in many places, and is badly washed in others. The party traveled a distance of approximately five miles and completed six planetable stations in two hours.

METHODS (Continued)

There are two types of "Weasels", both of which are amphibious. The smaller of the two, which is the type used in this instance, has a very low free board and a small carrying capacity. The larger one is designed to carry four passengers and has more free board, approximately 6 to 8 inches. Either type will travel at speeds up to 20 miles per hour on roads or clear tundra. They can climb steep grades while carrying a good load.

It is recommended that one of the larger type "Weasels" be acquired for use by each of the larger vessels. A variety of uses will be found for them, such as signal building, triangulation and topographic surveys.

PLACE NAMES

South Bight:- This name was assigned by the Army and Navy authorities at Amchitka and is the accepted designation of this anchorage.

Omega Point:- This name is suggested from the radio call name assigned to Amchitka during the war. No previously assigned name has been found.

East Cape:- This is a charted name.

LANDMARKS FOR CHARTS

Triangulation station MIST 1945 is a tall grey silo located on the top of the ridge and is a conspicuous landmark showing to the north, east and south. It should be shown on chart No. 8864 and any new charts of this area.

L. 59 (1946)
*Not added to 8864
Enough landmarks here*

AIRPHOTO INSPECTION

A number of the topographic stations have been pricked on the airphotos for control purposes. See special report on Airphoto Inspection.

Respectfully submitted,

Karl B. Jeffers
KARL B. JEFFERS
Lt. Comdr., C. & G. Survey

Approved:

G. D. Meaney
G. D. MEANEY
Lt. Comdr., C. & G. Survey
Comdg. Ship SURVEYOR

GEOGRAPHIC NAMES

Survey No. H-7040

Name on Survey	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<u>Alaska</u>			(for title)							1
<u>Aleutian Islands</u>										2
<u>Amchitka Island</u>								U.S.G.B.		3
<u>South Bight</u>										4
<u>Omega Point</u>										5
										6
										7
										8
										9
										10
										11
<u>Constantine Harbor (location of tide staff)</u>								U.S.G.B.		12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

Names underlined in red appeared
by L. HECKER (10/28/46)

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. H-7040....

Records accompanying survey:

Returned to Field Party

Boat sheets; sounding vols. .2...; wire drag vols.;
 bomb vols.; graphic recorder rolls .1³...;
 special reports, etc.

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

Number of positions on sheet	.....	1735
Number of positions checked	.....	35
Number of positions revised	.....	2
Number of soundings revised (refers to depth only)	.....	65
Number of soundings erroneously spaced	.....	15
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	4hrs
Junctions	Time	0
Verification of soundings from graphic record	Time	10hrs

Verification by... *C.P. Reed* Total time .125 hrs. Date 8 Oct. 1946

Reviewed by... *R.H. Caratano* Time 22 ^{hr} Date Oct. 23, 1946

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7040

FIELD NO. SU-1145

Alaska-Aleutian Is., Amchitka I., South Bight and Approaches
Surveyed in June 1945 Scale 1:10,000
Project No. CS-218

Soundings:

Control:

Handlead
808 Fathometer
Dorsey III Fathometer
NMC Fathometer

Sextant fixes on shore signals

Chief of Party - C. D. Meaney
Surveyed by - C. D. Meaney, R. C. Rowse and W. R. Porter
Protracted by - C. N. Hillman
Soundings plotted by - C. N. Hillman
Verified and inked by - C. P. Reed
Reviewed by - R. H. Carstens, October 23, 1946
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline and signals originate with the unreviewed manuscript of T-8016 (1934-45) and with graphic control sheets ~~T-6988~~ and ~~T-6990~~ of 1945.
Not registered

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 unsurveyed inshore areas.

The bottom is fairly smooth except close inshore where there are many rocks awash, pinnacles and reefs, and in lat. 51° 20', long. 179° 20' where there is a knoll with a least depth of about 10 fms. rising from general depths of greater than 30 fms.

4. Junctions with Contemporary Surveys

There are no adjoining surveys in this area registered at the present time.

5. Comparison with Prior Surveys

H-6906 (1935) 1:150,000

The few soundings from this small scale U. S. Navy reconnaissance survey are in fair agreement with present depths. The present survey supersedes this prior survey within the common area.

6. Comparison with Chart 8864 (Latest print date 6/2/45)

A. Hydrography

The hydrography charted within the limits of the present survey originates with H-6906 (1935) discussed in the preceding paragraph and needs no further consideration.

B. Aids to Navigation

There are no aids to navigation charted within the limits of the present survey.

7. Condition of Survey

The field plotting was accurate.

The sounding records and Descriptive Report are complete and comprehensive.

The boat sheet was not available for comparison when the survey was verified. The comparison will be made when the boat sheet is received from the field.

8. Compliance with Project Instructions

The survey adequately complies with the Instructions.

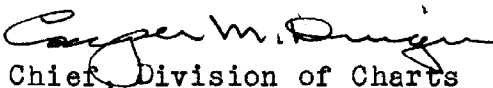
9. Additional Field Work Recommended

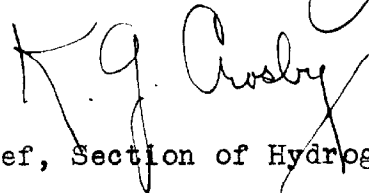
The area close inshore remains to be surveyed.

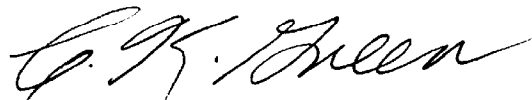
Additional bottom characteristics should be taken in the deeper offshore areas to complete the bottom characteristic coverage.

Examined and approved:


Chief, Nautical Chart Branch


Chief, Division of Charts


Chief, Section of Hydrography


Chief, Division of Coastal Surveys

H.W.M.

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

September 16, 1946

Division of Charts: H. W. Murray

Plane of reference approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 7040

Locality South Coast of Amchitka Island, Aleutian Islands, Alaska

Chief of Party: C. D. Meaney in 1945
Plane of reference is mean lower low water, reading
5.0 ft. on tide staff at Constantine Harbor
9.9 ft. below B. M. 1

Height of mean high water above plane of reference is 3.5 feet.

Condition of records satisfactory except as noted below:

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

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7040

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
10/6/47	8864	A. F. Stegman	Before After Verification and Review <i>Completely applied</i>
10/15/47	8863	Steg	Before After Verification and Review <i>Completely applied thru Ch. 8864</i>
11/28/48	^{Revised} 8863	J. Walker	Before After Verification and Review
01/93	16450	DON CORDTS	Before After Verification and Review <i>Fully applied</i> <i>New Metric 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

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.