6990

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. SU - 1144 Office No. H - 6990

LOCALITY

State ALASKA - Alcutian Islands

General locality Attu Island

Locality Sarana Bay

194 4

CHIEF OF PARTY

C.D. MEANEY

LIBRARY & ARCHIVES

DATE MAY 9 1945

B-1870-1 (1)



VELOCITY COFRECTION BESTRACT For Hydrographic Survey H- 6990

to 88-0

			Septembe	er 29	,1944	
808	Ship 820	Fms/Sec.	٤ .	808 L	aunch 8	20 Fms/Sec.
Fms	Fms	Ft	Fms		Fms	Ft
0 to	10-4	-1/2	0-0	to	1-3	0
10-5 t	o 1 0- 3	-1	1-4	to	7-4	-1/2
16-4 t		-1 1/2	7-5	to	16-3	-1
22-4 t	-	-2	16-4	to	21-0	-1 1/2
27-4 +		-2 1/2	21-1	to	26-0	-2
33-0 t	o 38 -2	-3	26-1	to	33-0	-2 1/2
38-3 t		-4	33-1	to	38-2	-3
48-1 t		- 5	38-5	to	48-1	-4
55-5 t		- 6	48-2	to	54-3	-5
63-4 t		- 7	54-4	to	62-3	- 6
72-1 t		 €	62-4	to	71-8	-7
79-3 t		- 8	71-4	to	79-2	-8

Sept	ember 20,1	944	A	ngus	t 4,19	44
RC# - 8	00 Pos/Se	c.	RCA	80) Fms	/Sec.
Fms	Pas	Yt	4-5	to	12-0	0 ft.
0	12.0	С	12-1	to	95-0	<i>+</i> 1 "
12-1	30.0	+1	95-1	to	200	0 "
30-1	62.0	+2				
62-1	100.0	+3				
*100-1	300	O Fms	201	to	330	+ O Fms.
			331	to	455	+ 1 "
Use Augus	t 4.1944 T	empeSalinty Car.	406	to	565	+2 "
for dephs	greater t	han 100 fathoms.	566	to	650	+ 3 "
			651	$\mathbf{t}\mathbf{q}$	722	+ 4 "
			723	to	787	+5"
			788	to	850	+ 6 "
			851	tro	908 =	7 "
			909	to	964	+ 8 "
			965	to	1012	4 9 "

Above data furnished by Ship EXPLORER

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. SU 1144

REGISTER NO. H-8990 (1944)

State	ALASKA - Aleutian Islands Attu Island
General locality	
Locality	Sarana Bay, 1344 Island
Scale 1:10,000 1	Date of survey . Sept. 24 - 27 , 19.44
Vessel	SURVEYOR
Chief of Party	C. D. Moaney
Surveyed by	C. A. Goerge
Protracted by	R. E. Sylar
Soundings penciled by	P. M. Michards
Soundings in fathoms	Court and tenths
Plane of reference	N.L.L.W.
Subdivision of wire d	ragged areas by
Inked by	Mex
Verified by <i>G.B. Maal</i>	lex
Instructions fr	on Lieson Officer, Aug. 14, 1944. and Plotting by the Senttle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE

Descriptive Report to Accompany Hydrographic Survey

H - 6990 (Field No. SU-1144)

Sarana Bay, Attu Island, Alaska.

1944

Scale 1 to 10,000.

Ship SURVEYOR

Chief of Party:

C.D. Meaney, Lt. Comdr. C. & GS

In Charge of field work:

C.A. George, Lt. Comdr. C. & GS

- A. Project This survey is a part of Project CS-218. The original instructions are dated February 3, 1938; revised instruction, April 16, 1943; supplemental instructions, February 1, 1944; and instructions, for sub-project 20, dated August 14, 1944 issued by Casper M. Durgin, Lt. Comdr., C. & G.S., Liaison Officer. Instructions dated September 29, 1944 were issued by Lt. Comdr. Casper M. Durgin to discontinue the project.
- B. Survey Limits and Dates The general locality of the area is Attu Island, Alaska. The survey covers Sarana Bay and includes that portion of the bay called Hodikof Bay.

Field work began on September 24, 1944 and ended on September 27, 1944.

On chart 9126, a few, widely spaced sounding lines are shown in Sarana Bay. The origin of these soundings and information on any prior surveys are not available at this vessel.

- A junction is made on the east with contemporary survey H-6991 (1944).
- C. Vessel and Equipment The entire survey was made by the SURVEYOR's launch No. 4 operating from the Ship SURVEYOR.

The turning radius of the launch is from 10 to 15 meters.

- 808 Fathometer Number 46 was used for all soundings except for handlead soundings obtained on shoals and in kelp patches.
- D. Tide and Current Stations The tide stations at Holtz Bay, with- out time or range correction, was used in the reduction of all sound-ings.
- E. Smooth Sheet The smooth sheet projection was constructed by hand at the Seattle Processing Office. The smooth sheet is to be completed by the personnel of that office.
- F. Control Stations A baseline was measured and triangulation stations established and located in 1944 by personnel of the Ship SURVEYOR, C.D. Meaney, Chief of Party. The topographic and hydrographic stations were located by triangulation cuts.

G. Shoreline and Topography - No planetable work was done. Shore- 🗸 line may be obtained from air photographs taken by the Army. Shore live is being compiled in Philogrammetic Lection may 45 mgg The low-water line is not defined by the soundings. With the exception of the sandy beach at the head of Sarana Bay, the shores are steep-to and fringed with reefs and kelp. Additional hydrographic signals will be needed to furnish adequate control for sounding lines close to the

Not compiled. Photos shadowed and not inspected J.A.M.

H. Soundings - The soundings were obtained in the usual manner using the 808 Fathometer. On shoals and in heavy kelp, the handlead was used.

shore. (See paragraph J).

- I. Control of Hydrography Standard methods were used to control the hydrography - sextant angles between shore stations.
- J. Adequacy of Survey The survey is not complete. Instructions were received on September 29, 1944 from the Liaison Office to disdontinue the project and to transfer the records and work to the Ship EXPLORER. No additional work was accomplished, however, by that vessel.

It is believed that the survey is adequate to supersede prior surveys for charting. The present survey is of standard accuracy except that additional work is necessary.

Splits and development are necessary throughout the area covered by this survey. Lines closer to the shore should be run, practically the whole length of the shoreline and additional cross lines are required.

A shoal with a least depth of afathoms was found in latitude 520 - 53.051 and longitude 1730 - 18.501; on the last trip out of Sarana V 07/945 week Bay, the SURVEYOR reported seeing a breaker in this vicinity. Additional development and investigation is necessary.

Rock awash

- Crosslines No system of crosslines were run but about 4% of crosslines were run during the course of the regular hydrography.
- L. Comparison With Prior Surveys As stated in paragraphy B of this report, as far as it is known there are no prior surveys with the exception of the soundings shown on chart number 9126.
- M. Comparison With Chart A few, widely spaced sounding lines are shown on harbor chart 9126 (June 1944). In general, these soundings seem to be in fair agreement with the present survey. The rock awash, located at latitude 520 - 52.95' and longitude 1730 - 19.09' (scaled from boat sheet) is not shown on the chart.

Plan of Sarana Bay on Chart 9126 cancelled by new Chart 9127.

The final comparison between this survey and the chart should be made after the smooth sheet is plotted.

N. Dangers and Shoals - The positions of the following shoals and dangers have been scaled from the boat sheet:-

Feature	Latitude	Longitude	Least Depth (Boat Sheet)
Rock Awash (Outer Rock)	52 - 52.95	173 - 19.09	
Shoal	- 5 3.05	- 18.50	2 fathoms 15/10 fms * m 1945
Shoal	- 52.80	- 18.70	4 " 3%0"
Shoal	- 54.35√	- 19.22	1 "(Kelb) 3% 7 73 in 1945
Shoal	- 53.90	- 19.85	14 " / 11 in 1945
Shoal	- 53.4V	- 19.80	7 " 7% 5 4 in 1945
Large shoal bet	ween(- 53.8 /	- 18.9) - 19.4)	5 11 (4 His in 1945

Rock islet

signal Top, located by triangulation cuts. - 173° 48'.58'

Hodikof Reef

Foul area north of Hodikof Island.

The above locations and depths are taken from the boat sheet. This paragraph should be rewritten and additions made if necessary by personnel of the Scattle Processing Office when the smooth sheet is completed.

O. Coast Pilot Information - With the exception of the rocks extending east of Hodikof Point, Sarana Bay is free of dangers and easy to enter. Approach to the bay may be made on a course of 270° true, passing 0.35 miles south of Outer Rock and passing 0.3 miles south of Hodikof Island which is the largest, most prominent and southerly of the rocks and islets east of Hodikof Point.

Anchorage for large-draft vessels may be found in from 15 to 20 fathoms. The bottom is gray sand which offers good holding ground. Small-draft vessels may anchor near the head of the bay in from 6 to 10 fathoms. Anchorage for small-draft vessels may also be had in Hodikof Bay in from 7 to 10 fathoms with sand bottom.

Sarana Bay is protected from the sea from all directions except the east. It is subject to strong williwaws from the west but otherwise, affords good protection from the wind in all directions except the east and northeast.

The SURVEYOR usually anchored about 0.4 mile southwest of Hodikof Island in latitude 52° - 52.60° and longitude 173° - 17.45° . The depth was 16 fathoms with sand bottom. The launch anchored off the sandy beach at the head of Sarana Bay in from 2 to 4 fathoms.

Hodikof Bay and the head of Sarana Bay are excellent fishing grounds for Attu mackerel and flounder.

filedinchas 220.2 P. Aids to Navigation - There are no fixed or floating aids to navigation in the area covered by this survey.

The westerly terminus of the submarine cable between Attue Island and the Semichi Island is: Latitude 52° - 53.10' and longitude 173° - 16.12'.

This position was furnished by the U.S. Engineers.

- Q. Landmarks for Charts There are no landmarks within the limits of this survey.
- R. Geographic Names The following new geographic names have been used in conjunction with the records of this survey and are recommended for charting:-

Name

Description-Remarks

Hodikof Island

This name applied to the largest and westernmost of the group of rocky islets lying between Sarana and Hodikof Bays. \triangle station HODIKOF, 1944 is located on this islet.

Hodikof Reef

This name applied to the reef adjacent to Hodikof Island and extending 1/4 mile north and northeast of the islet.

The above names are recommended because of their geographic position and proximity to Hodikof Bay.

Outer Rock

Name applied to the rock awash in latitude $52^{\circ} - 52.95^{\circ}$, longitude $173^{\circ} - 19.09^{\circ}$. The name is used in the 1944 edition of the Aleutian Islands Coast Pilot. This feature is a distinct danger and in all probability will be referred to by navigators.

Inner Rocks

This name is used in the Coast Pilot but it is not recommended. The group of rocks are widely scattered and it is believed that the names - Hodikof Island and Hodikof Reef - previously recommended, are more applicable.

U. Velocity Corrections - Velocity corrections determined by the Ship EXPLORER and dated September 29, 1944 were applied to the soundings on this survey. The SURVEYOR was in the area such a short time that sufficient temperature and salinity observations to furnish adevate determination of the velocity were not made. The corrections furnished by the EXPLORER were for a longer period. An abstract of the corrections used, is included as a separate entry in this report.

? But V. Tidal Data - No tide station was established in Sarana Bay. In accordance with the Director's letter dated December 6, 1944, 36McC, Holtz Bay tides were used for the reduction of soundings on this survey. The tide gage at Holtz Bay was maintained by the Ship EXPLORER and Hourly Heights for the period required were furnished by that vessel. A tidal note is included as a separate entry in this report.

Respectfully submitted,

Clause 9. Leage.

Clarence A. George Lieut. Comdr., C. & G.S.

Approved:

C.D. Meaney
Lt. Comdr., C. & G.S.
Chief of Party

STATISTICS FOR HYDROGRAPHIC SURVEY H-6990 (1944)

Ship SURVEYOR

Project CS-218

Vessel: Launch No. 4

Day	Date 1944	Volume	No. Positions	No. Statue Mi.
a.	Sept. 24	1	108	25.4
b	Sept. 25		1 62	32.8
G	Sept. 26	2	20 4	31.0
d	Sept. 27	2 & 3	207	47.2

Total Statistics for Survey

681 Positions
136.4 Statue Miles
4.0 Square Statue Miles

TIDE NOTE FOR HYDROGRAPHIC SURVEY

H-6990 (1944)

Tide Station: Holtz Bay.

Latitude - 52° - 55,54N Longitude - 173° - 09.57E

The plane of mean lower low water for Holt_Z Bay corresponds to a staff reading of 3.4 feet.

No correction for differences in time or height was applied (See Director's letter of December 6, 1944, Ref. 36, McC.)

The hourly heights were furnished by the Ship EXPLORER.

H-6990

Sarana Bay Attu Island

Seattle Processing Office Notes

Control-

Second and fourth order triangulation by Meaney, 1944.

Datum-

USH 1934, assuming station CHIC as a recovery of the Mavy Astronomic Station.

Shoreline-

Sketched by inspection of photographs - and no claim for accuracy is made for it. The outer rock awash 500 feet off Hodikes Point is from the hydrographic records. The rest inshere from it was sketched on the host sheet from photographs and transferred. The linen cover sheet indicates in green ink the features taken from the photographs. Those shown in red or blue ink on the cover sheet (kelp, limits of low water ledges, rocks, etc.) were sketched on the boat sheet by the hydro party.

Cover sheat destroyed. Photo sketching left in practil. Boat sheet sketching inked in black.

Discrepancies at Crossings-

Lat.	and Long.	Position No.	Sdg ims.	Remarks	
	52 :46 18,21	50-51a 62 a	25 fms. & 23.5 21.5 fms.	Plat bottom	Adjusted by correcting
52 1 75	52.36 20.12	54-55a 132 d	25.5 fms. 21.5		for fathometer speed.

Boat Sheet-

The work was done on a boat sheet of tracing paper which shows positions only. It is being forwarded with the records. A second boat sheet was prepared on which soundings were pletted. It was used to make the preliminary prints issued by the Liaison Officer. That boat sheet was returned to the field party for additional work in 1945.

H-6990

List of Signals

ALTO	Triangulation 4th order
BIG	n n
EZRA	म ्म
HOD	HODIKOF 1944
HUT	Triangulation "
JIM	H
JOY	19 19
JUG	_ н н
KIT	13
KOP	n n
LIT	Hydro - Vol. 2
MAN	Triangulation "
NIX	96 19
NORTE	SARAMA NORTH BASE 1944
CRE	Triangulation 4th order
PAW	н
BANA	RANA 1944
RIP	Triangulation "
WELL	и и
SOUTH	SARAWA SOUTH BASE 1944
SPARKS	SPARKS 1944
TOP	Triangulation 4th order

Respectfully submitted,

Edgar E. Smith Cartographic Engineer Seattle Processing Office

Approved and Forwarded,

Josephoroly

F. H. Hardy Officer in Charge Seattle Processing Office

H-6990

Sarana Bay Attu Island

A CONTRACTOR OF THE PROPERTY O

Tide Station - Holts Bay

Latitude 52° 55154 E Longitude 173 09.57 E

The plane of mean lower low water for Holts Bay corresponds to a staff reading of 3.4 feet.

No correction for differences in time or height was applied. (See Director's letter of December 6, 1944, Ref. 36-McC.)

The hourly heights were furnished by the Ship EXPLORER.

Survey No. 11690	7U /	40. Of	of C C C C C C C C C C C C C C C C C C C	D. Mod S.	or local star	Or local ways	Cilde of Mac	Mario Nation 1
Name on Survey	A A	B	C C	D	E	o F	G	н к
Aleutian Islands			(for	+1+	e)			
Attu Ishad					525	725 1		U.S.48
Sarana Bay					525	730 E		
Square Point					10			
Hodirof Bay					•			
Hodirof Point					<u> </u>			USFB
HodiKof Ishn	7				4		,	
Hodixol Reel			-	_	10			
Outer Rock					•			
Bering Sea								•
			<u> </u>					
			138	4.8% <u>heisti</u>		******	r-4,.	
			24	L. H	EM :	41/1/4	5	
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Holtz Bay		(10.	ation	n of	tid	e sha	++/	V.S.6.
,								
					<u> </u>	<u> </u>		

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. H6.990

Records accompanying survey:	
Boat sheets .1; sounding vols. 3; w	vire drag vols;
bomb vols; graphic recorder rolls	· ···;
special reports, etc	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
The following statistics will be submitted rapher's report on the sheet:	with the cartog-
Number of positions on sheet	.68.0
Number of positions checked	9.0
Number of positions revised	5
Number of soundings recorded	46.00
Number of soundings revised (refers to depth only)	./.40.
Number of soundings erroneously spaced	!5.
Number of signals erroneously plotted or transferred	0.
Topographic details Time	.2 brs
Junctions Time	.Q
Verification of soundings from graphic record Time	.8 hrs
Verification by. G.B. W.qq//e.y Total time	115.hr.s Date Sept.4,19.4.5

Review by ...J.A.McCormick Time 6 hrs. Date .../!/45.

TIDE NOTE FOR HYDROGRAPHIC SHEET

19 May 1945

Division of Hydrography and Topography:-

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

Plane of reference approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET 6990

Locality Sarana Bay, Attu Island, Aleutian Islands

Chief of Party: C. D. Meaney in 1944
Plane of reference is mean lower low water reading
3.4 ft. on tide staff at Holtz Bay
7.3 ft. below B. M. 1

Height of mean high water above plane of reference is 3.7 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

G IN Breen

и. в. починиями размине отгоз 154827

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6990

FIELD NO. SU-1144

Aleutian Islands; Attu Island; Sarana Bay Surveyed in Sept. 1944 Scale 1:10,000 Project No. CS-218

Soundings:

Control:

808A Fathometer

Three-point fixes on shore signals

Chief of Party - C. D. Meaney Surveyed by - C. A. George Protracted by - R. M. Sylar Soundings plotted by - P. M. Fisher Verified and inked by - G. B. Woolley Reviewed by - J. A. McCormick, Nov. 1, 1945 Inspected by - H. W. Murray

1. Shoreline and Signals

Authorities for control are listed in the descriptive report. Penciled shoreline was sketched from air photographs; inked detail was sketched from notes on the boatsheet and in the sounding record. The Division of Photogrammetry states that shadowed and uninspected photographs are not suitable for standard compilation.

2. Sounding Line Crossings

Agreement at crossings is satisfactory.

3. Bottom Configuration

Sarana Bay can be entered easily and affords good holding bottom. There are several prominent rocks and shoals north of Sarana Bay proper and masking the approaches to Hodikof Bay.

4. Adjoining Surveys

A satisfactory junction was effected with H-6991 (1944) on the east. Other surveys made in the vicinity in 1945 are not yet available for comparison.

5. Previous Surveys

Sarana Bay had not previously been surveyed by the Bureau.

6. Comparison with Chart 9127 (Print of April 28, 1945)

The present survey was applied to the chart through B.P. 38965, advance boatsheet compilation. Differences between chart and smooth sheet depths seldom exceed one fathom. Charted shoreline also is from B.P. 38965 (sketched as on smooth sheet). It can be improved by adding reef detail as indicated by dashed pencil line on smooth sheet and revising slightly around Hodikof Island. Reference might also be made to the U.S. Engineers Quadrangle maps of the area.

7. Compliance with Project Instructions

Satisfactory except for lack of shoreline.

8. Additional Field Work Recommended

The descriptive report, page 2, discusses the adequacy of the survey and states the need for additional work. Some or all of this work was accomplished in 1945 but has not yet been received in this office.

Ad. Wk. 1945 is now applied.

Examined and approved:

Chief, Chart Division

Chief, Nautical Chart Branch

Chief, Section of Hydrography

61.0 Cm

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO.H. 6990

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1-18-76	9/27	2. m. albert	Bolote After Verification and Review grant
10/3/49	9122	Bother	Before After Verification and Review forans fruction.
4/3/59	9128	J. HEaton	Before After Verification and Review Recenstraction
5-6-63	8865	The Tragonial	No Cirl Gw
11-4-92	10423	Edilloto	Before After Verification and Review Chart
			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
			M.2160.1

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.

add a few shool edge to chart 9198 from pencilled smooth sheet 2 m a. 6-2-45.

Applied to cht 8865 before inking 2 m. a. July 2, "

contid. on printed form

6990

Additional work

Diag'd on Diag. Ch. No. 9198-1

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. SU-1144 Office No. H-6990 Additional Work

LOCALITY '

State Alaska - Aleutian Islands

General locality Near Ids: - Attu Id.

Locality Sarana Bay

194 _5

CHIEF OF PARTY

L. C. Wilder

LIBRARY & ARCHIVES

MAR 11 1946

DATE ..

B-1870-1 (1



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. SU-1144

REGISTER NO. H-6990

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-6990 (Field No. SU-1144)

Scale 1:10,000

Sarana & Hodikof Bays, Attu Island, Alaska
L. C. Wilder, Chief of Party
U.S.C.& G.S.S. DERICKSON
1945

PROJECT: The hydrography was accomplished under Project CS-218 dated 16 April 1943. Supplemental instructions were dated 1 February 1944 and 29 January 1945, and instructions (Project 20) by Capt. F. B. T. Siems, Liaison Officer, 17th Naval District, dated 12 April 1945.

SURVEY LIMITS AND DATES: In general the area covered by the survey is Sarana & Hodikof Bays, Attu Island. The work was begun by the SURVEYOR in 1944 and completed by the DERICKSON during the period from 15 June to 8 July 1945. The survey makes a junction on the north with Sheet DE-1145 and on the east with Sheet H-6991, Field No. SU-2444.

VESSELS AND EQUIPMENT: Launch parties from the SURVEYOR in 1944 covered most of the area but did not undertake development of critical areas or the running of inshore lines. The DERICKSON'S 24-foot Motorsailer and the EXPLORER'S 30-foot Launch # 3 were used and equipped with 808A Fathometers, Nos. 56 and 61 respectively. The turning radius of the Motorsailer is from 10 to 15 feet and that of the Launch is 15 to 25 feet. The Motorsailer ran the inshore lines and developed an area in the vicinity of Latitude 520-53'-20"N, Longitude 1730-19'-30"E. The Launch accomplished the remaining work.

TIDES AND CURRENTS: See attached Tidal Note. No current stations were occupied.

CONTROL STATIONS: The triangulation was executed by the SURVEYOR in 1944, which also included geodetic positions for most of the whitewashes. The remaining signals were located by sextant cuts with the exception of signals Big and Jap, which were also located on Topographic Sheets DE-D-45 and DE-B-45 respectively.

SHORELINE AND TOPOGRAPHY: No shoreline or topography was detailed by this party. The soundings were carried as close to the shoreline as safety permitted.

SOUNDINGS: Soundings were obtained with 808A Fathometers with numerous handlead soundings on critical and shoal areas. Bar checks were usually taken three times a day. During the progress of work speed tests were performed on the fathometers operated by the parties from the DERICKSON and the results obtained were within the allowable requirements.

CONTROL OF HYDROGRAPHY: Horisontal control was by the three point / fix with sextants.

ADEQUACY OF SURVEY: The survey is considered adequate. A satis-#-1875 (1945) factory junction has been made with Sheet DE-1145 on the north and Sheet H-6991 to the east. No holidays have been noted within the area covered by the survey.

COMPARISON WITH CHART: Inasmuch as Chart 9127 was published from the work of the SURVEYOR in 1944 and the SURVEYOR'S Boat Sheet was used to carry on the survey in 1945, it is not considered necessary to make any comparisons.

DANGERS AND SHOALS: The following dangers and shoals that have been determined in 1945 are listed as follows:

Description

Latitude N. Longitude E.

2-fm. shoal - breaks in heavy

weather. Numerous shoals in

this vicinity. - - - - - - 52-54-03

5-fm. shoal - - - - - 52-53-54-2930 173-19-5448

Rock awash - - - - - 52-52-95** 173-19-00 - sec

Rock awash - - - - - 52-52-07 173-18-07

COAST PILOT NOTES: Submitted with the notes for the entire season's work, under separate report.

AIDS TO NAVIGATION: The submarine cable is shown as "Prohibited Anchorage" on Chart 9127.

LANDMARKS FOR CHARTS: None.

GEOGRAPHIC NAMES: No other names are known than as shown on Chart 9127.

Respectfully submitted,

Lt.Comdr., U.S.C.& G.S.

Approved and forwarded:

L. C. Wilder,

Lt.Comdr., U.S.C.& G.S.,

Chief of Party.

Restricted

ADVANCE REPORT OF DANGERS TO BE CHARTED

USI CAPIET.

Datum ____1934 __ Locality ____ Attu lelend

State __Aleska ___

Date 9 August 1945

recommend that the following dangers to navigation be charted. The positions given have been checked after listing: Checked by المعرفة المعرف Survey (Sheet) No. _ Yarious 11111

Chief of Party

			2	the 528 (1945)	1	Language				
T- E-	1945 ac 4	2/17/45 1945		of Hedikef Pt. 9127	600	930_471	166 08	52 54 173 18	~	shoal
No Se	11 July 1945	2/17/45	9127	Tower. Chicheges Sbr.	3856	1040-521	615 £54	52 56 52 56	-	sheel
A E	17 June 1945	1/16/45	92.26	Vaterfall	3932	1000-181	1684	52 49 173 24	1	breaker
Ja e	192	1/16/45 1945	9126	fover. Alexai Point	2410	1000-001	155	52 hg 173 20	1	breaker
A E	18 June 1945	1/16/45	9128	fower, Alexai Peint	230 4	1000-001	507	175 25 35	ļ	breaker
7 5	17 June	1/16/45	9128	Vatorfall	9	1400-21	1112	173 21 45	1	breaker
11 9	Location	Print Date	N.	Object or Feature	Distance (Meters)	True Bearing	Seconds in Meters	0		Type of Danger
	of	rt Used	‡ Char	From Charted Object or Natural Feature	rted Object	† From Cha	Longitude	Latitude and Longitude	*Depth L	1

Record least depth over danger reduced to plane of reference of charted soundings, using observed tides, if available. Record location both by geographic position and by true bearing with distance from object or natural feature shown on chart. Use largest scale chart and note print date given in lower left corner of chart.

NOTE: This form to be used during the season for prompt reports of uncharted dangers. If reports have been sent by wire, fill out this form and mail with confirmations. Enter dates of wires under "Remarks". Copies of reports on this form should be retained and submitted with the descriptive report.

STATISTICS FOR HYDROGRAPHIC BURVEY H-6990 (1945) U. S. C. & G. S. S. DERICESON - Project CS 218

Vol. No.	Day Letter	LAUNCH NO. 3 Date 1945	No. Sdgs. H. L.	Number Positions	Statute Miles Sdgs.
1 1 1 & 2 2 2 2 2 3 3	b c d e f g h j	15 June 26 June 27 June 28 June 29 June 3 July 4 July 6 July 7 July 8 July	7 5 2 6 6 - 5 -	72 71 100 125 59 117 98 7 123	13.1 7.5 9.4 13.1 5.7 13.1 10.0 0.6 12.1 14.4
й 74	a. b	TOTALS MOTORSAILER 20 June 22 June	31	900 134 142	99.0 13.5 15.3
·	TOTALS FOR	TOTALS	11	276 1176	28.8

Sounding with Type 808A Depth Recorder. Continuous profile on all lines.

Area covered by survey = 3.0 sq. statute miles

VELOCITY COMPROTIONS - 6 TO 29 JUNE 1945

Ship			Leunches		
SOMA - Velocity of \$20 fmc/eec.			505A - Velocity of 520 fms/sec.		
Corra.	From	20	Gerra.	From	To
Fus.	Pac.	Yas .	Fme.		Fac.
0.0 0.1 0.0 0.0 0.0 0.6 0.6 0.8 0.0 0.0	8.6 12.9 17.4 22.0 26.2 31.1 40.0	8.5 12.8 17.3 21.9 26.1 31.0 39.9 48.0 56.1	0.0 - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.6 - 0.8 - 1.0 - 1.2	0.0 2.8 5.1 12.5 17.0 21.3 25.8 30.2 39.2	2.7 8.0 12.4 16.9 21.2 25.7 30.1 39.1 47.8 56.2
- 1.4	56.2	on or wan	- 1.4	56.3	70.6

Ship ENU -- Velecity of 800 fms/sec.

Coren.	From	To Jus.
0.0	. 0	61

VALOUTRY COMMENSTICKS - 3 20 LT JULY 1945

Ship			Lennehos		
SOEA - Velocity of \$20 Ins/sec.			SOEL - Velocity of 520 Ins/sec.		
Gorra.	Zron	to	Corra.	From	To
Inc.	Zno.	Zao,		Two.	The
0.0 - 0.2 - 0.5 - 0.5 - 0.6 - 0.6 - 1.6 - 1.8 - 1.8 - 2.5 - 3.5 - 3.5	0.0 4.6 10.0 15.1 19.1 24.9 34.2 52.3 61.5 70.0 85.9 97.9 124 146	4.5 9.9 15.0 19.5 29.5 34.1 43.1 52.4 50.5 79.5 125 145	0.0 - 0.1 - 0.2 - 0.3 - 0.4 - 0.5 - 0.6 - 0.8 - 1.0 - 1.2	0.0 3.6 9.3 14.3 19.3 24.3 29.1 34.0 51.9	3.5 9.2 14.2 19.2 24.2 29.0 33.9 42.9 51.8
1040 Ye	Skip Leelty of 500	\$mo/200.		Thip (Cent.) Legity of 500	£85/506.
Corra.	From	To	Corra.	Tron	To
	Fas.	Jan.	Inc.	Tao	Tas.
0.5050505050505050505050505050505050505	0. 132 301 409 471 561 661 739 781 816 852 884 921 951 951 1013 1046 1072	131 300 408 470 540 600 645 660 736 760 815 851 863 920 950 950 1012 1045 1071	+ 10.0 + 10.5 + 11.0 + 11.5 + 12.0	1101 1129 1151 1179 1201	1128 1150 1178 1200

APPROVAL SHEET

30 November 1945

The records and boat sheet for Survey No. H-6990 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 details.

C. Wilder Chief of Party

TIDE NOTE

A portable automatic tide gage was maintained at the U.S.A. A.F. pier in Chichagof Harbor; Latitude 52° - 55.9 N., Longitude 173° - 14.4 E. The observed tides at this station were used for the reduction of all soundings taken on this sheet, except as noted below. The height of mean lower low water and mean high water corresponds to readings of 3.3 feet and 6.9 feet, respectively, on the tide staff. No time or height corrections have been applied to the observed tides.

A standard automatic tide gage was maintained at Massacre Bay; Latitude 52° - 51° N., Longitude 173° - 12° E. The height of mean lower low water corresponds to 3.6 feet on the tide staff. (SEE Director's letter of 24 August 1945, reference 36 mlh). No time or height corrections have been applied to the observed tides. Massacre Bay tides were used on the 15 and 22 June 1945.

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ... H6990 Additional WOLK

Records accompanying survey:		
Boat sheets .l; sounding vols4.; wi	re drag	vols;
bomb vols; graphic recorder rolls	3;	
special reports, etc		
The following statistics will be submitted wit rapher's report on the sheet:	th the c	artog-
Number of positions on sheet		1176
Number of positions checked		147
Number of positions revised		9
Number of soundings revised (refers to depth only)		8
Number of soundings erroneously spaced		21
Number of signals erroneously plotted or transferred		
Topographic details	Time	. 8 . hrs
Junctions	Time	• • • • •
Verification of soundings from graphic record	Time	8 '`
Verification by .A.R. STIRMITotal time	.66 hrs	Date 7/2/46.
Reviewed by Jordan Time	.13	Date \$/5/46.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6990 Ad. Wk.

FIELD NO. SU 1144

Alaska, Aleutian Islands, Attu Island, Sarana Bay Surveyed in June and July, 1945 Scale 1:10,000 Project No. CS-218

Soundings:

Control:

808 Fathometer Hand lead

Three-point fixes on shore signals

Chief of Party - L. C. Wilder
Surveyed by - L. C. Wilder, J. Laskowski and J. E. Waugh
Protracted by - F. J. Ortiz
Soundings plotted by - F. J. Ortiz
Verified and inked by - A. R. Stirni
Reviewed by - G. F. Jordan, August 5, 1946
Inspected by - H. W. Murray

This additional work satisfactorily completes the original survey of 1944. Split lines were run, shoals were developed, and inshore hydrography was executed over most of the area of the survey.

A 3.1-fm. sounding (4 fm. on chart 9127 of April 28, 1945) on the 1944 work at lat. 52° 54.33', long. 173° 19.22', has been superseded by 7.3 fm. The 3.1 fm. is considered to have been a kelp reading. The shoal was thoroughly investigated with fathometer and leadline.

The 5.4-fm. sounding (pos. 74b, vol. 4) at lat. 52° 53.50', long. 173° 19.81' may be on kelp. Kelp traces are very heavy on the fathogram. The least depth obtained with leadline was 7.2 fm., however, a note in the sounding record states that the bottom here is very irregular.

TIDE NOTE FOR HYDROGRAPHIC SHEET

15 March 1946

Division-of-Hydrography-and-Topography:

Division of Charts: H. W. MURRAYY

Plane of reference approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 6990 (additional work)

Locality Sarana Bay, Attu Island, Aleutian Is., Alaska

Chief of Party: L. C. Wilder in 1945
Plane of reference is mean lower low water, reading
3.3 ft. on tide staff at Chichagof Harbor
12.8 ft. below B. M. 1

Height of mean high water above plane of reference is 3.6 feet.

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents.

Examined and approved:

anthier Nautical Chart Branch

Chief, Chart Division

Chief, Section of Hydrography

Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/15/46	9127	DWalley	Before Werification and Review Examine -
			no cor, now - wait for V&R.
1/14/48	9127	Steg - Jw	Betwee After Verification and Review Partially
8/3/49	9127 -	wolf trail	Before After Verification and Review Reconstruction.
4/7/59	9/28	JAHEaton	-Before After Verification and Review Reconstruction
5-63	8865	En Fragorize	No Carl Con
11-4-92	16423	El Mark	Before After Verification and Review Close
·			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			M.2168.1

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.