6867

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

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. EX-2445 Office No. 6867

LOCALITY

State Alaska - Aleytian Is

General locality Attu Island (north coast)

Austin Cove to
Locality Between Steller Cove & Holtz Bey

194 5

CHIEF OF PARTY

Roland D. Horne

LIBRARY & ARCHIVES

DATE ____ APR 18 1946

B-1870-1 (1)

3867

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-6867

Field No. EX 2445

State	Alaska - Aleutian Is.
General locality	Attu Island (North Coast)
Locality	Austin Cove to Between Steller Cove and Holts Bey
	0,000 Date of survey 27-28 July 1945
	Supplemental, 24 May 1945, Liaison Officer, Project #30
Vessel	USCAGSS EXPLORER
	Roland D. Horne
	E.C. Baum; W. Weidlich
	y fathometer, graphic recorder, thronk touck, writer
Protracted by	R. H. Woodcock
	by R. H. Woodcock
	and tenths uthoms xbentx at xMXXXX MLLW
REMARKS: Projec #29 and #30) in 22 August 1945, Orders and Inst The 1500 W	t CS-218 - Field work was discontinued on this survey (projects accordance with Liaison Officer's Supplemental Instructions dated ref. ND17/H1 (Gen), FETS/hs, series 01846 (excerpts of Director's ructions of 29 January 1945). Meridian time was used for operation of tide gage, reduction secution of hydrography.
Smooth Shee	et and Plotting by the Seattle Processing Office.

U. S. GOVERNMENT PRINTING OFFICE 428978

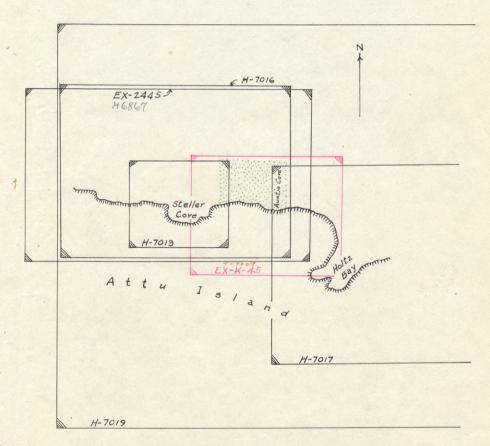
INDEX SHEET

to

Accompany Hydrographic Sheet

Field Number EX-2445

6867



green dotted area indicates surveyed limits. black solid lines indicate hydrographic sheets. red solid lines indicate topographic sheets.

DESCRIPTIVE REPORT

TO

ACCOMPANY HYDROGRAPHIC SURVEY H- 6867
(Field No. EX-2445)

BETWEEN HOLTZ BAY AND STELLER COVE

ATTU ISLAND, ALASKA

1945

SCALE 1:20,000 USC&GSS EXPLORER

ROLAND D. HORNE, COMMANDING

SURVEYED BY: E. C. BAUM - W. WEIDLICH

- 0 -

A. PROJECT:

CS-218; Supplemental Instructions dated 24 May 1945, project #30, Liaison Officer, Adak, Alaska.

B. SURVEY LIMITS AND DATES:

The survey is located on the north shore of Attu Island, Alaska contiguous to the coastline between Steller Cove and Holtz Bay and delimited: by a north-south line, lying at the eastern entrance to Steller Cove, extending offshore for $2\frac{1}{8}$ miles distant; thence easterly for 3 3/4 miles; thence south for 3 miles to the coastline, forming the eastern entrance of Austin Cove. See index-limit sheet attached.

Hydrography was executed during the period 27-28 July 1945.

Junctures with contemporary surveys: to the eastward with $(1949)^{-45}$ H-7017, scale 1:20,000; to the northward with H-7019, scale 1:40,000; to the westward with H-7013, scale 1:10,000 (south) and H-7016,

scale 1:20,000 (north). See index-limit sheet attached for junctures with and scales of contemporary surveys.

C. VESSEL AND EQUIPMENT:

The USC&GSS EXPLORER with hydrographic launch No. 1, operating from the vessel, executed the hydrography. The launch operated off-shoreward to a juncture with the ship survey at approximately the 30 fathom depth curve defined by an east-west line 1 mile offshore, normal to the coastline.

The turning radius of EXPLORER is 275 and 360 meters to port and starboard respectively. The vessel's sounding speed varies between 10 knots on inshore lines to $12\frac{1}{2}$ knots on offshore lines.

No appreciable variation in turning radius was observed within the limits of speeds utilized.

The vessel and launch used 808 fathometers, graphic recorder types, No's. 60 and 50 respectively, for all depths on the fathom scale.

D. TIDE STATION:

Reduction of tides was based on Steller Cove, portable tide gage, during period of survey.

E. SMOOTH SHEETS:

Function of Processing Office.

F. CONTROL STATIONS:

Datum, USN GANNET 1934. Local triangulation, Roland D. Horne 7-7009
1944. Local topography, traverse method, field sheet No. EX-K-1945.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topographic details pertaining to the area (to be? EES)

of this survey are combined from data from topographic (traverse method) sheet, Field No. EX-K-1945 and air-photographs flown by

US Navy, Attu, Alaska during 1944 and 1945.

Where the low-water line is not defined by soundings, due to the irregular, rocky ledge-formations, it was delineated by air-photographic inspection. The inspection with regard to offlying rocks, elevations above their respective planes of reference were made by the air-photographic field party.

The delineated shoreline contiguous to this survey was not available during period of survey.

H. SOUNDINGS:

All depths were graphically recorded, on the fathom scale, using the 808 fathometers.

) トンタング) トンタング) 「 See Hydrographic Report, Field No. EX-2245 paragraph "H. Sounding," regarding spot development.

I. CONTROL OF HYDROGRAPHY:

Standard sextant-fix practices for position determination were executed in accordance with "Special Publication No. 143 Rev. 1942."

J. ADEQUACY OF SURVEY:

This survey is complete, requires no additional work and is adequate to supersede prior surveys for charting.

Boat sheet junctures with contemporary surveys are in close agreement, however the smooth sheet examination, when accomplished,

Shore line not on boat sheet nor topo plate. Photos not available to processing office No shore line on smooth sheet.

Shoreline added in washington office

will govern.

Depth curves can be adequately drawn on the boat sheet at the junctions.

K. CROSSLINES:

Adequate crosslines were run indicating close agreement.

L. COMPARISON WITH CHART:

No previous survey existed. >

M. DANGERS AND SHOALS:

Cognizance should be taken of:

Type 'Depth' Latitude Longitude Pos. No	. Vol.,	Remarks	-
Shoal, 16,53°00'.17 N,173°00'.07 E, 165	b, 3 ,	Small Craft	T 1
Rock , 53°00'.32 N,173°00'.28 E, 65	b, 2 ·	Awash M Hu	,
Islet, - ,53°00'.08 N,173°03'.45°E, -	,	Topo Signal Let.	•
islet - 53°00'.04 N 173°02'.4 E -	†	Topo Signal Ice.	,
Shoot +3 32 59.67 173 04', \$6 205	} 		_
(See T7009 EES Respectfully	submitte	∍đ.	

E. C. Baum, Lt. Comdr., C&GS.

W. Weidlich. Mate, C&GS.

Approved and forwarded:

Roland D. Horne, Comdr., C&GS

STATISTICS FOR HYDROGRAPHIC SURVEY H- 6867

Survey Unit	'Vol.	, Day ,Letter	, Da , 19	te 45	ידבחווווו	' No. Sta. 'Miles Sdg.' 'Lines	Area Sq. Sta. Miles
EXPLORER	, 1	, A	, July	27	151	64.2	,
† # #	, 1	, B	July	28	62	24.2	•
, Total	l For	EXPLOR	CR	1	217	88.4	8,5
Launch #1	, 2	, a	July	27	224	50.5	•
1 1	2&3	, b	July	28	180	28.8	1
Total	l For	Launch	#1	1	404	79.3	4.9
, (rand	Total		,	621	167.7	13.4

TIDE NOTE

Reduction of soundings for Hydrographic Sheet No. H- 6867 (Field No. EX-2445) is based on tide data from portable automatic tide gage #187 established in 1945 on the west shore of Steller Cove, Attu Island, Alaska. Latitude 52°59'.6 N, longitude 172°54'.6 E. The hourly heights for reduction of records were scaled from the marigrems. The plane of reference of MILW is 3.9 feet on tide staff as derived from Tide Division letter dated 19 June 1945, ref. m 1 h with respect to re-establishment and leveling during 1945 field season.

All times, for the operation of tide gage, execution of hydrography and reduction of records were based on the 150° W. Meridian time.

12 July 1945

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EX-2445

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407	to	555	+2.5		1549	to	1564		+21.0 +21.5
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973	to	1000	+8.5		1764	to	1769		+27.5
1001	to	1025	+0.0		1760	to	1776		+23.0
1020	. ಕೆಂ	1050	+9•5		1775	to	1768		+28.8
1059	to	1080	#10.0		1769	to	1809		+20+0
1001	to	1110	+10.5	12121	1804	to:	1617	- 70 g	w.20.8
1111	- to	1134	+11.0		1818	to	1850		→30.0
1135	ťο	1.100	+11.5		1831	to	1344	12 Table 1	+30.6
1161	to	1184	+12,0		1645	to	1850		+31.0
1105	to	1206	+12,5		1857	CO	1009		+31.5
1200	to	1223	+13.0	· · · · · · · · · · · · · · · · · · ·	1070	to	1002		+52.0
1229	ರಂ	1250	443.5		1083	to	1805		+32.5
1261	to	1273	+14.0	e de la companie	1396	to	1905		+,33.0
1274	to	1295	+14.5		1000 -	to	1916		+35.5
1296	to	1314	+15.0		1917	to	1925		+34.0
1315	to	1337	+15.5		1329	io.	1980	Carlot State	+50.5
1338	to	1555_		 The State (State Control of State Control of	1040	to	1950		+35.0
1350	to	1378	+16. 5		1951	to	1950		+38,6
1379 1390	to	1398	+17. 0		1960	to	1970		+55.0
1610	to	1017	+17,5		1971	to	1980		+36.8
1637	to to	1436	+18.0		1981	to	1989		+57.0
\$201 / V	UU.	1450	+18.5		1990	to	2000	A. 1.	4-37.8
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EX-7445

Seattle Processing Office Notes

This is an unfinished field survey. It is intended to extend the soundings westward during 1946 to a junction with H-6864 (EX 2345) near Kresta Point. As the greater part of the work is yet to be done, the Processing Office will request the return of the smooth sheet for further plotting when the need arises.

Smooth Sheet-

Datum: USN GANNET 1934. The sheet extends westward to Kresta Point to provide for additional work. All topo signals are from T-7009 (EX-K-45). Certain rocks were transferred from T-6973 (Ex-H-44).

Shoreline from T-69732

Crossings-

Latitude		Longitude		Position	Depth	Remarks
53°	0010	172 ⁰ 59	17	52-53b 89-90a	8 6.5	Irregular bottom close to shore
53	00.5	173 01	.•8	173=174b 156=157b	22.7 20.5 ok	The shoaler of these two may be erroneous. See fathogram.
53	00.15	173 01	85	155 - 156b	6.7	Scanned by field party. Fathogram looks like kelp or stray with bottom 10 ft. deeper.

Other crossings are very good.

All other pertinent matters have been covered by the field party. The sheet is simple and clear and requires no explanation.

H-6867

North Coast Attu Island

414

List of Geographic Names Penciled on the Smooth Sheet

Bering Sea

Attu Island

Steller Cove

Austin Cove

Respectfully submitted,

Edgar M. Smith Cartographic Engineer Seattle Processing Office.

GEOGRAPHIC NAMES Survey No.	67	Char. Or	de de la	S. Model	Ne de la	OC OC INDO	O. Guide of	HOO HE HOLL	N.S. J. S. J. S.	*//
Name on Survey	A OF	B	C C	D	E	or / c	G	H H	S. K.	\angle
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Aleutian Islands		· · ·	,					ļ. <u>.</u>		2
Athu I			<u> </u>						Users	3
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Austin Cove							,			-5
Earle Cove										6
Ked Herd									USEB	7
	Mar			CONTRACTOR OF						8
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Massacre Bay		(loca	tion	of ti	de st	att)				11
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ... #6867

Records accompanying survey:	• .
Boat sheets Not in yet sounding vols. 3; w	ire drag vols;
bomb vols; graphic recorder rolls	^
special reports, etc	
•••••••••••••••••	••••••
The following statistics will be submitted wirepher's report on the sheet:	th the certog-
Number of positions on sheet	621
Number of positions checked	7
Number of positions revised	Q
Number of soundings revised (refers to depth only)	. 59
Number of soundings erroneously spaced	3
Number of signals erroneously plotted or transferred	0
Topographic details	Time
Junctions	Time 8hr.
Verification of soundings from graphic record	Time lohr.
Verification by	
Reviewed by . F. H. C. Time (Ree 1946 wh.) ly surgestuit)	14.4. Date 9/24/46

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 29, 1946

Division -of -Hydrography -and -Topography:

Division of Charts: H. W. MURRAY

Plane of reference approved in 3 volumes of sounding records for

HYDROGRAPHIC SHEET 6867

Locality North Coast of Attu Island, Aleutian Is., Alaska

Chief of Party: R. D. Horne 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:

Chief, Division of Tides and Currents...

E.C. McKay

в. воущимине различно отрисв 15433

6867

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. EX-2115 Office No. H-6867

LOCALITY

State Alaska - Aleutian Islands

General locality Attu Island

Locality Austin Cove to Earle Cove

194 5-16

CHIEF OF PARTY

Al P. Ratti and Ronald D. Horne

LIBRARY & ARCHIVES

DATE _____ Dec. 1, 1947

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.

2445 Field No. EX 2245

REGISTER NO. H-6867

State	Alaska, Aleutian Islands	鼠
General locality	Near Is., North Coast of Attu T.	17
Locality	Austin Cove to Earle Cove	
Scale 1:20,000	Date of survey 1945 and 1946 , 19	
Vessel	SURVEYOR	
Chief of Party	A. P. Ratti	%.
Surveyed by	Ship's Officers	•
Protracted by	R.D. Broad & Betty B. Jones	
Soundings penciled by	Betty B. Jones	
Soundings in fathoms	xfeeix	
Plane of reference	MLLW	
Subdivision of wire of	lragged areas by	
Inked by	·	
		4
Instructions dated	3 Feb. 1938 and 21 March , 1946	•
Remarks: E. Part of t	he sheet was surveyed by EXPLORER during 1945	season.
Smooth Sheet	& Plotting by Seattle Processing Office	

U. S. GOVERNMENT PRINTING OFFICE

DESCRIPTIVE REPORT

To ACCOMPANY

HYDROGRAPHIC SURVEY H-6867(Field No. EX-2245)

North Coast Of Attu Island

PROJECT CS-218 ----1946

Scale:

1/20,000

Chief of Party:

A. P. RATTI, Commanding Ship SURVEYOR

Field work by:

Ship's Officers, Ship SURVEYOR

A. PROJECT:

Project No. CS-218, Original instructions dated February 3, 1938. Supplemental instructions issued by Liaison Officer, dated March 21, 1946.

B/ SURVEY LIMITS AND DATES:

This survey covers the area on the North Coast of Attu Island from Red Head to Earle Cove, and extends northward to Latitude 53° 05'. Satisfactory junctions were made with the following surveys: H-7016 / (1944) to the east. H-7135 (1946) (EX-6146 Scale 1:60,000) to the north and H-7142 (1946) (SU-1146, Scale 1:10,000) to the west. Field work was accomplished between July 28 and August 14, 1946. 1; 86,000

* Note: Work on this sheet was begun by the Ship EXPLORER in 1945.

C. VESSELS AND EQUIPMENT:

The hydrography was done using the Ship SURVEYOR and Launch No. 2 operating from the Ship. All soundings were obtained using an 808 type recorder No. 47-S, 52 and a Navy NMC type fathometer (graph)

D. TIDE AND CURRENT STATIONS:

All tidal data were obtained from a portable automatic tide gage at Steller Cove.

No current stations were occupied.

E. SMOOTH SHEET:

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

F. CONTROL STATIONS:

Triangulation control was established by the Ship EXPLORER in 1944 and the Ship SURVEYOR in 1946. Additional stations were established by graphic control (See Sheet SU-B-46). (7-70336(1946), 7-7034(1946)

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topography of this area will be taken from air photos supplemented by topographic sheet SU-B-46. (T-70336(1946) T-7034(1946)

H. SOUNDINGS:

All soundings were obtained by standard methods.

I. CONTROL OF HYDROGRAPHY:

Sounding lines were controlled by sextant fixes on shore objects.

J: ADEQUACY OF SURVEY:

The survey is considered adequate for the area covered. Numerous rocks and beds of heavy kelp prevented development of close inshore areas.

K. CROSSLINES:

The crossings are satisfactory.

L. COMPARISON WITH PRIOR SURVEYS:

There have been no prior surveys of this area.

M: COMPARISON WITH CHART:

There are no existing large scale charts covering this area.

N. DANGERS AND SHOALS:

Bee DESCREPANCIES on page 3.

O. COAST PILOT INFORMATION:

See Coast Pilot Report, Aleutian Islands, 1946.

P. AIDS TO NAVIGATION:

None.

Q. LANDMARKS FOR CHARTS:

None.

S. SILTED AREAS:

None

Z. TABULATION OF APPLICABLE DATA:

Tide observations- Tabulated by personnel of Ship SURVEYOR-Forwarded to Washington.Office. Velocity Corrections-Compiled by personnel of Ship EXPLORER. Coast Pilot Report- Forwarded to Washington Office.

DESCREPANCIES:

Attention is called to apparent descrepancies on 8 fathom shoal O. O. O. of a mile N.E. of triangulation signal station PART. Shoaler soundings on graph are thought to be from submarine growth. The last day of sounding was rough and no indication of breakers were observed on this shoal while breakers were observed inshore on deeper rocks.

See Process. 109 Office notes 8fm. plotted

Respectfully submitted,

HENRY O. FORTIN, Lt. Comdr., C. & G. Survey

Approved:

A. P. RATTI

Comdr., C. & G. Survey

Commanding Officer, Ship SURVEYOR

Season	1946

Aleutian Near Isla In Fathor Date	inds Grp.	NMC Red Light Init.2.0 Fathoms Inst.Er. -0.3	NMC Rec. (Graph) Init.0.0 Pathoms Inst.Er. + 0.1	808 Initial 2.0 Fms. A-Scale 47-S 52 104-S +0.4 -0.1 +0.3	808 Initial 2.0 Fms B-Scale 47-3 52 104-5 40.5	C-Scale	D-Scale 808 #46 • Init. A-Scale 2.0Fms. Inst.Er 47-S.52 + 0.1
5/25/46 5/26/46 5/27/46 5/28/46 5/30/46 5/31/46 6/6/46 6/14/46 6/20/46 7/23/46 7/23/46 7/28/46 7/29/46 7/29/46 8/26/46 8/26/46 8/27/46 8/28/46 9/19/46 9/19/46 9/27/46 10/1/46 10/5/46	+ 2.3 2.2 2.2 2.2 2.4 2.3 2.4 2.3 2.2 2.2 2.0 2.0 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3 2.4 2.3	0.00 — 0.00 — 0.1 — 0.0 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.1 — 0.0 — 0.1	- + 2.4 - 2.4 - 2.3 - 2.3 - 2.3 - 2.5 - 2.4 - 2.4	+0.7 +0.2 + 0.6 0.7 0.2 0.6 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.8 0.3 0.6 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.6 0.1 0.5 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6 0.8 0.3 0.7 0.7 0.2 0.6	40.8 + 0.3 -0.5 0.8 0.3 0.5 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.7 0.2 0.6 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.8 0.3 0.5 0.9 0.4 0.4 0.5 0.5 0.5 0.9 0.4 0.4 0.5 0.5 0.5 0.9 0.4 0.4 0.5 0.5 0.5 0.9 0.4 0.4 0.5 0.5 0.5	40.3 40.3 10.3 0.3 0.3 0.3 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.2 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.4 0.4 0.4 0.3 0.3 0.3 0.3 0.3 0.3	4 0.3 0.0 0.3 0.0 0.2 -0.1 0.2 -0.1 0.3 0.0 0.2 -0.1 0.3 0.0 0.2 -0.1 0.3 0.0 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.2 -0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.3 0.0 0.4 +0.1 0.2 -0.1 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.2 -0.1 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.2 -0.1 0.4 +0.1 0.2 -0.1 0.4 +0.1 0.3 0.0 0.0 0.4 +0.1 0.3 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

LIST OF STATIONS on H-6867 (1946)

Name used in	n Survey		Origin of Station
Ado			SU_B_46
Bar	•		SU_B_46
Cap			SU-B-46
Cup			SU-C-46
Day		X	SU-B-46
Doris	•		Doris-1946 *
Ear	1		SU_B_46
Fad			SU-C-46
Fit			SU_B_46
Fox	•		Fox-1944
Gal			SU-B-46
Gem			SU-C-46
Heat			Heat-1946*
Нор			SU-19-46
Hot		•	SU-C-46
Hump		•	SU-B-46
Hunt Ida			Hunt-1946 *
Jim			SU-B-46
Joy	,		SU-B-46
Kid			SU-B-46
Log			SU-B-46 SU-B-46
Nor		,	T-6971a
Old		•	SU-B-46
Pup			SU-B-46
Prit			Prit-1944
Red			SU-B-46
Rest	•	•	SU-B-46
Ruth			Ruth-1946 *
Sac		•	SU-B-46
Sea			T-6971 a
Sharp			T-6971 a
Sou		•	T-6971 a
Vance	•		SU-B-46

^{*} Ship to Shore Triangulation in 1946.

(EX 2445)

North Coast of Attu Island

Seattle Processing Office Notes

The part of this sheet east of Steller Cove was surveyed by the EXPLORER's party in 1945. It was plotted, sent to Washington, verified, inked, and returned to Seattle. The 1946 work by the SURVEYOR west of Steller Cove has now been added to the smooth sheet.

<u>questioned Sounding</u> Fathogram Reading 105-106 d day:

on the book sheet at depths of \$ fms. See Vol. 4, Page 11. See Fathogram. Line 105-106 d crosses it showing a steep ridge which falls abruptly on the north side to depths of 35 fms. The least sounding on this profile is in question. It could be read as 3 fms. or 8 fms. The field party thinks the shoaler reading is kelp, although they did not seel kelp. Other fathogram readings on this shoal are:

Pos. 98e 12 fms.

100-101e 7.7 7.8 3

15-172/64 7.6"

105-106d 7.9" or 3 fms.

This has been plotted #fms. as preferred by the field party. It was not examined with the hand lead. We would appreciate comment on this shoal supported by a photostat of the fathogram.

Irregular Bottom-

Inside the 20 fm. curve the bottom is irregular and broken, with pinnacle formations. Attention is called to the 11.5 fms. at Lat. 53 Ol.4 - Long. 172 50.8, Pos. 32-33d, accompanied by tide rips. Additional development is suggested for this point. See also the 7.6 fms. 172 Long. 172 49.5 and the 7.2 fms. at Lat. 53 Ol.37 Long. 172 49.60

Dangers

The outermost dangers revealed are the shoal ending at Lat. Fath appears 53°01.30', Long. 172°49.25' and the foul area ending at the 5.7 fm. sounding at Lat. 53°01.15', Long. 172°48.35'. See the 6.2 fms. at Lat. to be correct ly redd. 53°01.25', Long. 172°47.02'. The broken character of the bottom indicates that between Steller Cove and Long. 172°47', vessels larger than 500 tons should keep outside the 20 fm. curve.

Attention is called to the following notes in the sounding records-

5.4 fm. con-Firmed by J.6

- (1) See note, Page 38, Vol. No. 3, Pes. 99b. Shoal sdg. on 60. (pos. 62-of 5.4 pletted at Let. 53 00.501, Long. 172° 52 321, 20 -4fathogram ef 5.4 pletted at Lat. 53 00.50, Long. 172 52.32. 30 min. spent by the field party sounding over this spot. Shoalest H.L. sdg. was 9 fms.
- (2) See also Pos. 100b, Page 38, Vol. No. 3. Soundings taken to verify shoal on H-7013 (1944) at Lat. 53°00.37', Long. 172°52.60'.
 3.6 fm. on H-6867 confirms 2.5 fm. on H-70/3(1944).
- (3) Note en Page 39, Vol. No. 3 Comparison with H-7013 (1944).

 13.4 fm (ast platted) on H6867, confirms 10 fm on H-7018 et Let. 53° ac.44', Long. 172°53.63' Comparison with H-7016 (1944) to eastward-

Along the junction north of Lat. 53 03', there are differences | See #4 of 2 fms. in depths of 45 to 55 fms. Along the southern part of the junc- of Review. tion there are differences of half to one fathom. There are also numerous points of agreement south of Lat. 53° 04'. Sheet H-6867 (1946) tends to be deeper.

Comparison with H-7013 (1944)-

The overlap on this sheet is slight, but the agreement is good. The 3.6 fms. on H-6867 (1944) at Lat. 53°00.37', Long. 172°53.60', Pos. (2) above 100b, is close to the 2.5 fms. at Lat. 53°00.38', Long. 172°53.62' on H-7013 (1944).

Comparison with H-7142 (1946)-

The agreement with H-7142 (1946) to westward is good.

Comparison with H-7135 (1946)-

The lower two lines of H-7135 (1946) between Long. 172 45.0 and 172° 55.0', while they do not coincide with the lines on H-6867 (1946) adequate. seem to be shoaler by approximately 2 fms. than the soundings on the latter sheet when the slope of the bottom is considered.

Respectfully submitted.

/8/ EDGAR E. SMITH Cartographic Engineer Seattle Processing Office

H-6867

Geographic Names

Steller Cove

Earle Cove

Red Head

STATISTICS FOR HYDROGRAPHIC SURVEY H- 6867 SHIP SURVEYOR

DAY	DATE	VOL. NO.	NO. POS.	STAT. MI. OF SOUNDING LINE
A	28 July 1946	1	162	69•0
В	29 July 1946	1-2	42	17.8
C	31 Julý 1946	2	<u>12</u> 216	<u>5.2</u> 92.0

Area Square Statute Mi.----33.7

Launch #2, Ship SURVEYOR

Project CS-218

DAY	DATE	VOL. NO.	NO. POS.	STAT. MI. OF SOUNDING LINE
a .	28 July 1946	1	100	18.7′
b .	29 July 1946	1	136	31.9
C	31 July 1946	1	77	16.2
đ	13 August 1946	1-2	121	27.2
•	14 August 1946	2	108 542	116,4

Area Square Statute Mi._____8275

GRAND TOTALS ______750

208.4

42.4

Hydrographic Surveys (Chart Division) Additional work HYDROGRAPHIC SURVEY NO. 10.05

Records accompanying survey:		
Boat sheets; sounding vols4; w	ire dra	g vols. 0
bomb vols. 0; graphic recorder rolls		,
special reports, etc		•••••
•••••••••••	•••••	•••••
The following statistics will be submitted wirepher's report on the sheet:	th the	certog_
Number of positions on sheet		758
Number of positions checked		45
Number of positions revised		3
Number of soundings revised (refers to depth only)		36
Number of soundings erroneously spaced		
Number of signals erroneously plotted or transferred		
Topographic details	Time	
Junctions	Time	. 14
Verification of soundings from graphic record	Time	8
Verification by LLUBBERS Je		(1/14/48 Date 9/30/48
Reviewed by In Jestenid (1945+1946) Time	61	Date 1//19/48

FORM 712
DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURYEY
Rev. June 1937

TIDE NOTE FOR HYDROGRAPHIC SHEET

DIANSION DIX NAVEL DE CONTRACTOR DE CONTRACT

9 January 1948

Division of Charts:

H. W. MURRAY

Plane of reference approved in volumes of sounding records for

HYDROGRAPHIC SHEET 6867 (additional work)

Locality- North Coast of Attu Island, Aleutian Islands

Chief of Party: A. P. Ratti in 1946
Plane of reference is mean lower low water, reading
4.5 ft. on tide staff at Stellar Cove
9.6 ft. below B. M. 1

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

Condition of records satisfactory except as noted below:

E.C.M. Kay

Chief, Division of Tides and Currents.

GOVERNMENT PRINTING OFFICE 1543:

H-6867

TIDAL NOTE

Tide reducers were obtained from the Portable Automatic Gage established in Steller Cove.

Latitude 52° 5916 N Longitude 172 52.6 E

Mean lower low water was used as the plane of reference and is 4.5 feet above the zero mark of the tide staff.

Hourly heights were tabulated by personnel of the Ship SURVEYOR. Tide reducers have been entered & checked.

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-6867

FIELD NO. EX-2445

Alaska, Aleutian Islands, Austin Cove to Earle Cove Surveyed in July 1945 to August 1946 Scale 1:20,000 Project No. CS-218

Soundings:

Control:

808 & NMC Fathometers

Three-point fixes on shore signals

Chief of Party - A. P. Ratti; Ronald D. Horne Surveyed by - E. C. Baum; W. Weidlich Protracted by - R. H. Woodcock; R. D. Broad; B. B. Jones Soundings plotted by - R. H. Woodcock; B. B. Jones Verified and inked by - C. P. Reed; L. Lubbers, Jr. Reviewed by - I. M. Zeskind; R. H. Carstens, Nov. 18, 1948 Inspected by - R. H. Carstens

1. Shoreline and Control

The shoreline originates with planetable sheets T-6971a (1944), T-6973a (1944), T-7033b (1946) and T-7034 (1946) on which the topography was transferred from air photographs.

The control originates with the above-mentioned surveys and graphic control survey T-7009 (1945).

2. Sounding Line Crossings

Agreement of depths at crossings is considered adequate.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated except close inshore where heavy kelp beds and the foul character of the bottom prevented development to the low-water line.

H-686791945-46)-2-

The shore is fringed with reefs and off-lying rocks. Outside the 20-fm. curve, the bottom is generally smooth. The head of a small submarine canyon is shown in the northwest part of the present survey.

4. Junctions with Contemporary Surveys

The present survey consists of 2 parts, the portion east of long. 172° 58.7' which was accomplished in 1945 and the portion west of long. 172° 54.0' which was accomplished in 1946.

In the eastern portion of the present survey adequate junctions were effected with H-7019 (1944-45) on the north, H-7017 (1944-45) on the east, H-7016 (1944) on the northwest and H-7013 (1944) on the southwest.

In the western portion of the present survey adequate junctions were effected with H-7135 (1946) on the north and west, H-7142 (1946) on the southwest, H-7016 (1944) on the east and H-7013 (1944) on the southeast.

Discrepancies of 1-2 fms. in depths greater than 40 fms. occur in the junction with H-7016 (1944). These discrepancies are apparently caused by inaccurracies due to phasing of the 808 fathometer used on H-7016. However, the curves are in adequate agreement and in these depths no difficulty in compilation should result.

5. Comparison with Prior Surveys

There are no prior surveys of the area by this Bureau.

6. Comparison with Chart 9198 (Latest print date 6/16/47)

A. Hydrography

The charted hydrography within the limits of the survey originates with advance information of the present survey shown on Bps. 42134 and 42135. A few revisions of 1 to 2 fms. in 40 to 50-fm. depths were made during verification. The 3-fm. sounding (charted in lat. 52 00.8', long. 47.0' (chart datum) was scaled on the fathogram from the top of kelp and is superseded by 5½ fathoms. The present survey, supersedes the charted information.

B. Aids to Navigation

No aids to navigation are charted in this area.

7• Condition of Survey

- The protracting and plotting were accurately accomplished and are in compliance with the requirements of the Hydrographic Manual.
- The sounding records and Descriptive Report are complete and adequate.
- Very few bottom characteristics were obtained.
- 8. Compliance with Instructions for the Project

The survey adequately complies with the Project Instructions, except as noted under par. 7.c.

9. Additional Field Work Recommended

It is recommended that the following additional work be accomplished at the first convenient opportunity:

- Split lines should be run in the inshore area lying between Steller Cove and long. 172° 48' in depths of about 10 fms. and less.
- Additional bottom characteristics should be obtained in the western portion of the survey.

Examined and approved:

I. E. Rittenburg

Chief, Nautical Chart Branch

rosby Chief, Section of Hydrøgraphy

Caspar M. Durgin

Chief, Division of Charts

C. K. Green Chief, Division of Coastal Surveys

NAUTICAL CHARTS BRANCH

SURVEY NO. <u># 6867</u>

Record of Application to Charts

	T T		
DATE	CHART	CARTOGRAPHER	REMARKS
4-23-46	9198	3.m.a.	Before After Verification and Review
"	8865	3.m.a	Before Adver Verification and Review 1945 work
			only
4/23/46	9127	John	Before After Verification and Review
1/20 12	000	201	
9-29-63	8865	Con Upragunji	After Verification and Review Exam Path and
			Revised Gordge & I carol
			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
	•		
		·	

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.