

7017

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. EX-2344 Office No. 7017

LOCALITY

State Alaska Aleutian Islands

General locality Attu I. Aleutian Islands

Locality Approaches to Holtz Bay, Attu Id.

1944

CHIEF OF PARTY

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

LIBRARY & ARCHIVES

DATE FEB 14 1945

7017

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7017

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

Field No. EX 2344

REGISTER NO. H-7017

State Alaska Aleutian Islands

General locality Attu I. Aleutian Islands

Locality Approaches to Holtz Bay, Attu Island

Scale 1:20,000 Date of survey Sept. 25-29, 1944

Vessel EXPLORER

Chief of Party Lt. Comdg. Roland D. Horne

Surveyed by W. Weidlich

Protracted by W. M. Martin

Soundings penciled by W. M. Martin

Soundings in fathoms ~~feet~~ Fathoms and Tenths

Plane of reference MLLW

Subdivision of wire dragged areas by _____

Inked by Herbert W. Burgoyne

Verified by Herbert W. Burgoyne

Instructions dated August 14, 1944

Remarks: Project 21 -- "Survey of Holtz Bay and Approaches, Attu I. *
issued from Headquarters, Seventeenth Naval District.
Smooth Sheet and Plotting by the Seattle Processing Office.

DESCRIPTIVE REPORT TO ACCOMPANY SHEET NO. H-2344

Date of Instruction:

Instructions for this project were issued by Headquarters, Seventeenth Naval District, on August 14, 1944 under title "Project 21 SURVEY OF HOLTZ BAY AND APPROACHES, ATTU ISLAND".

Survey Methods:

Standard survey methods were used throughout this sheet.

The control was based on an arc of triangulation by the U. S. Army Engineers in 1943 on the 1934 Gannet Datum. The EXPLORER extended a new arc of triangulation from stations HOL, RING and LOT in 1944, and established BAY2 when it was definitely proven that station BAY had been destroyed by the Army at the time station LOOK, a lookout post, was built. A point connection was made to station GIB established by the SURVEYOR in 1944 from U. S. Army 1943 control in Chichagof Harbor, and a planetable traverse ^{on T-6973 a (1944)} of approximately six miles was run by the EXPLORER westward to a connection with the detached triangulation scheme in Stellar Cove. Additional signals and some shoreline at the head of Holtz Bay were located by planetable topography ^{T-6972 a & b} on sheet F, 1944. The remainder of the shoreline was obtained by field inspection of airphotos in 1944. (826)

The 808 depth recorder was used to obtain all soundings on this sheet, with a constant plus correction of 5 feet applied when the "B" scale was used. The initial was set at the ship's draft reading at the beginning of each day. 12 vertical casts were spaced over the sheet to obtain comparisons with a fathometer readings and bottom characteristics. Serial temperatures were compiled on September 29, 1944.

The sounding lines were run north and south and spaced approximately 200 meters apart, with some lines 300 meters apart at the outer limits of the sheet. A sufficient number of cross lines were run to meet the general requirements.

This sheet is complete within the limits of the area covered by this survey. No additional development is recommended within its limits. See Rev. P. 9
A satisfactory overlap was made with the 1:20,000 sheet of the SURVEYOR at longitude 173°16'E. *Not registered 5/5/45*

Sufficient control was established by means of planetable traverse to continue hydrography westward to a junction with the 1944 hydrographic sheets of the EXPLORER in 1944, and a separate sheet should be laid out for this purpose.

Comparison with Previous Surveys:

No previous surveys had been made of this area. Good agreement was obtained with EXPLORER hydrographic sheet H-1244 at the south, SURVEYOR ship sheet at the east, and EXPLORER ship sheet H-4244 at the north. *H-7014 (1944)*
H-7019 (1944)

Discrepancies:

There are no discrepancies noted in this survey.

Dangers:

There are no dangers noted within the limits of this sheet.

Channels and Anchorages:

The inside limits of the soundings on this sheet may be considered as safe for entering Holtz Bay for anchorage purposes. Good ship anchorage may be obtained 1/2 mile north of the point dividing the east and west coves of Holtz Bay. The bottom characteristic is fine grey sand. 25

Statistics:

Number of positions- - - - - 688

Number of statute miles of sounding lines- - - - - 282.7

Tidal Note:

An auto portable tide gage was in operation on the west side of the east cove of Holtz Bay during the period of this survey. A tide staff and three bench marks were also established.

Respectfully submitted,



W. Weidlich, Mate, C&GS

Approved and forwarded,



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

H-7017

(EX 2344)

Approaches to Holtz Bay, Attu Island

Seattle Processing Office Notes

Datum-

USN (GANNET) 1934 datum as fixed by the EXPLORER's 1944 recomputation of Sylar's (USED) triangulation of 1943.

Control-

Triangulation by Sylar (USED) 1943, Honne 1944, and Meaney 1944. Topographic signals from T-6973 of 1944.
T-6972

Shoreline-

Inked rocks and bits of shoreline are from T-6972 a & b and T-6973. (1944)
~~Penciled shoreline has been sketched directly from photographs without benefit of radial plot.~~ (1944)

826

Comparison with Chart 9198-

The charted depths are sparse but where they occur, they are in approximate agreement with H-7017, except for the 90 fm. sounding charted at Lat. 53° 01' Long. 173° 06'. The depths here on the smooth sheet are around 50 fms. ^{90 not shown on latest print}

H.O. Chart 10253-1
Edgar E. Smith
Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Approved and Forwarded: *F. H. Hardy*

F. H. Hardy
Officer in Charge,
Seattle Processing Office.

H-7017

STATISTICS

<u>Day</u>	<u>Date</u>	<u>Vol.#</u>	<u>Stat. Mi.</u>	<u>No. of Pos.</u>	<u>Wire Sdgs.</u>
	<u>1944</u>				
A	9/25	1	87.4	216	
B	9/27	2	58.5	139	
C	9/28	2	47.4	99	
C	9/28	3	45.7	109	
D	9/29	3	<u>43.7</u>	<u>125</u>	<u>14</u>
			282.7	688	14

Total Area - 24.75 sq. mi.

All work done by Ship EXPLORER.

H-7017

(EX 2344)

Approaches to Holtz Bay, Attu Island

TIDAL NOTE

Holtz Bay, Attu Island

Portable Automatic Gage

On west side of eastern cove of Holtz Bay

Latitude 52° 55.54 N

Longitude 173 09.57

Staff reading of MLLW ----- 3.4 feet

30' *low*

*fac
Hum.*

TIDE NOTE FOR HYDROGRAPHIC SHEET

March 1, 1945.

~~Division of Hydrography and Topography:~~

✓ Division of Charts: Attention: HAROLD W. MURRAY

Plane of reference approved in
3 volumes of sounding records for

HYDROGRAPHIC SHEET 7017

Locality Holtz Bay, Attu Island, Aleutian Islands, Alaska

Chief of Party: R. D. Horne 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:

H. A. Marmor
acting Chief, Division of Tides and Currents.

GEOGRAPHIC NAMES

Survey No.

H7017

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>Aleutian Islands</u>										1
<u>Attu Island</u>								U.S. G.B.		2
<u>Holtz Bay</u>				525	730E			"		3
<u>Bering Sea</u>				"				"		4
<u>Goltsov Point</u>				"				"		5
<u>Center Point</u>				"						6
										7
										8
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										27

by L. Heck on 5/9/45

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H.7017**

Records accompanying survey:

Boat sheets ..1.; sounding vols. ..3.; wire drag vols.;
 bomb vols.; graphic recorder rolls ..1...;
 special reports, etc.

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

Number of positions on sheet		549..
Number of positions checked		68..
Number of positions revised		5..
Number of soundings recorded		5200. Approx
Number of soundings revised (refers to depth only)		20..
Number of soundings erroneously spaced		2..
Number of signals erroneously plotted or transferred		9..
Topographic details	Time	16 hrs
Junctions	Time	3..
Verification of soundings from graphic record	Time	6..

Verification by *Herbert W. Burgoyne* Total time 152 hrs Date 4/27/45..

Review by *R.H. Carstens* Time 11 hrs Date 5/7/45..

H-7017

List of Signals

BAY 2	1944
BIG	1944
BRAD	1944
CHEP	1944
Club	T-6973
COOP	1944
GIBSON	1944
GLEN	1944
Hid	T-6973
HIGH (USED)	1943
HILL (HUTCH)	1944
HOOK	1944
IVAN	1944
LOCKOUT TOWER	1944
LOT (USED)	1943
Nig	T-6973
PARK	1944
Scar	T-6973
TOWER	1944
Wash	T-6973

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7017

FIELD NO. Ex. 2344

Aleutian Is., Attu I., Approaches to Holtz Bay
Surveyed in Sept. 1944, Scale 1:20,000
Instructions dated Aug. 14, 1944, Project 21

Soundings:

Control:

808 Fathometer

Three-point fix on shore signals

Chief of Party - Roland D. Horne
Surveyed by - W. Weidlich
Protracted by - W. M. Martin
Soundings plotted by - W. M. Martin
Verified and inked by - H. W. Burgoyne
Reviewed by - R. H. Carstens, May 7, 1945
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline and signals originate with T-6972 a & b (1944) and T-6973 a (1944). The transferred shoreline includes recent revisions from aerial photographs.

2. Sounding Line Crossings

Satisfactory.

3. Depth Curves and Submarine Relief

The usual depth curves were satisfactorily drawn. Several isolated spots rise to 32-43 fms. in general depths less than 50 fms.

4. Junctions with Contemporary Surveys

A satisfactory junction was effected with H-7019 (1944) on the north. The junction with H-7014 (1944) on the south will be considered when that sheet is verified. No surveys to the east or west are registered at the present time.

5. Comparison with Prior Surveys

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

6. Comparison with Chart 9127 (Latest print date 2/17/45)
Chart 9198 (Latest print date 2/2/45)

A. Hydrography

The charted hydrography within the limits of the present survey

originates with advance information of the present survey shown on bp. 38968 (1944). Charted depths are within 1-2 fm. of smooth sheet depths. The charts should be corrected to agree with the final present survey information.

The wreck charted in lat. 52° 58.9' long. 173° 14.52' falling in depths of 46 fms. originates with bp. 38543 (1943). This wreck should be retained.

The 42 fms. carried forward from H. O. Chart 10253-1 to chart 9198 in lat. 52° 58.25', long 173° 15.8', falls in present depths of about 47 fms. This 42 is one of several soundings on reconnaissance line, all of which disagree with the present survey depths. The 42 should be removed from Chart 9198.

B. Aids to Navigation

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

7. Condition of Survey

Satisfactory

8. Compliance with Instructions for the Project

Satisfactory

9. Additional Field Work Recommended

A note on bp. 38543 (1943) states that several Jap ships were bombed and sunk here, one of which is reported in lat. 52° 58.9', long. 173° 14.52'. Wire dragging of the area inside the 50 fm. curve will insure that such wrecks do not constitute a danger to navigation. This drag work should specifically include the 32 fm. shoal in lat. 53° 00.6', long. 173° 12.5' and the 37 fms. in lat. 53° 00.3', long. 173° 15.9'. Completion of the above will render the present survey a basic survey.

These can probably be located by sonic methods and then drag limited areas.

10. Superseded Surveys

None

Examined and Approved:

Charles Price
Division of Charts

J. B. Jordan
Chief, Chart Division

Earl O. Heston
Chief, Section of Hydrography

Raymond E. Gorman
Chief, Division of Coastal Surveys.

Add WK. 1945
The purpose of the additional work was to complete the survey of the inshore area of H-7017 (1944). This has been satisfactorily accomplished. No formal review is necessary. R.H. Carstens 6/11/45

7017

Additional work

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-2344 Office No. H-7017

Additional Work

LOCALITY

State Alaska

General locality Attu Island (northcoast)

Locality West of Holtz Bay

194 5

CHIEF OF PARTY

Roland D. Horne

LIBRARY & ARCHIVES

DATE APR 24 1946

B-1870-1 (1)

7017

Additional work

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

REG. NO. H7017 Additional work

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-7017

Field No. EX-2344

State Alaska

General locality Attu Island (northcoast)

Locality West of Holtz Bay

Scale 1:20,000 Date of survey 28 July - 7 August 1945

Instructions dated Supplemental 24 May 1945 project #30 Liaison Officer

Vessel USC&GSS EXPLORER

Chief of party Roland D. Horne

Surveyed by E. C. Baum, I. R. Rubottom

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

Protracted by G.L. Kittleson

Soundings penciled by T.A. Dinsmore

Soundings in fathoms feet at ~~MLLW~~ MLLW fathoms; MLLW

REMARKS: Project CS 218. Completes hydrographic survey H-7017 started in 1944.

The 150° W. meridian time was used for operation of tide gage, reduction of soundings, execution of hydrography.

Seattle Processing Office, 1500 Westlake Ave. N., Seattle 9, Wash.

Extra Copy

23 January 1946

To: The Director
U. S. Coast and Geodetic Survey

Subject: Request for return of H-6991 and H-7017 to
Seattle Processing Office.

1. It is requested that the following hydrographic sheets now at the Washington Office be returned to the Seattle Processing Office for completion.

H-6991 - Approach to Sarana Bay, Attu Island
H-7017 - Approach to Helts Bay, Attu Island.

2. Additional field work has been accomplished in 1945 in the areas of these sheets, and it is recommended that this work be plotted by this office because of its extent in the case of H-6991 and because of the use of new hydrographic signals in the case of H-7017.

F. S. T. Sims
Officer in Charge,
Seattle Processing Office

Seattle Processing Office, 1500 Westlake Ave. N., Seattle

17 April 1948

To: The Director
U. S. Coast and Geodetic Survey

Subject: Smooth sheets H-7017 and H-6991, Aleutian Is.

Upon examining the additional soundings made in 1945 on boat sheets H-6991 and H-7017, it seems that these soundings should be plotted on the smooth sheets carrying those numbers which are in your office.

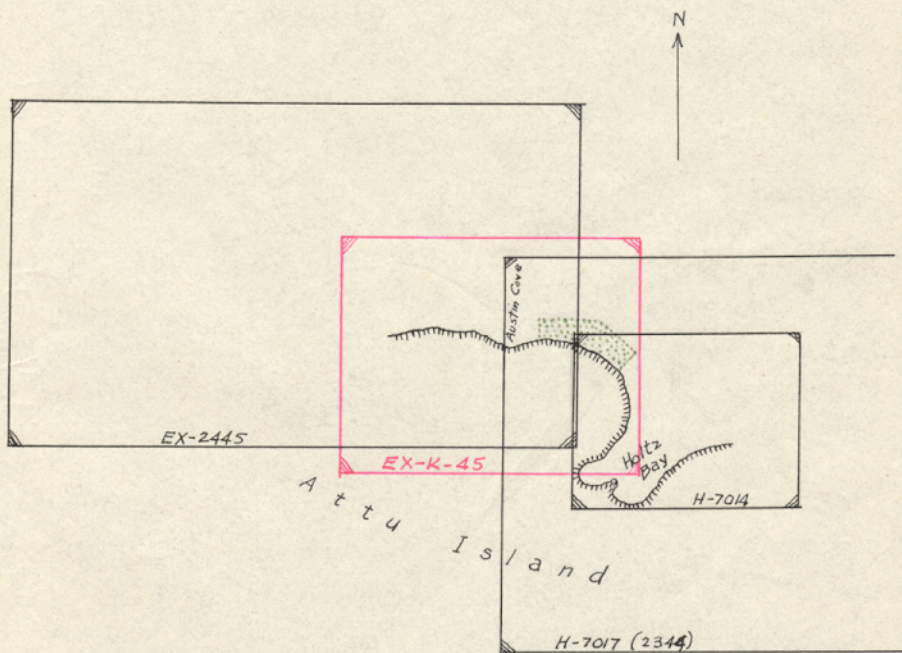
The new work on H-6991 is development of shoals in the previously sounded area of Sarana Bay, Attu Island; that on H-7017 fills in a small holiday left between 1944 soundings and the shore west of Holtz Bay, Attu.

All pertinent topographic sheets are already in Washington. We are forwarding the field records to you for plotting.

Two photostat copies of each completed smooth sheet, one for this office and one for the Liaison Officer, are requested when available.

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

INDEX SHEET
to
Accompany Hydrographic Sheet H-7017
Field Number EX-2344



green dotted area indicates surveyed limits 1945 only.
black solid lines indicate hydrographic sheets.
red solid lines indicate topographic sheets.

DESCRIPTIVE REPORT

TO

ACCOMPANY HYDROGRAPHIC SURVEY H-7017

ALASKA, ATTU ISLAND (NORTHCOAST) VICINITY OF HOLTZ BAY

1945

SCALE 1:20,000 U.S.C. & G.S.S. EXPLORER

ROLAND D. HORNE, COMMANDING

SURVEYED BY: E. C. BAUM - I. R. RUBOTTOM

- o -

A. PROJECT:

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

B. SURVEY LIMITS AND DATES:

The area surveyed during the present field season completes hydrographic sheet No. H-7017, started in 1944. The area is located on the northshore of Attu Island, Alaska, contiguous to the coastline, lying immediately to the westward of Holtz Bay and delimited: to the eastward by a northeast-southwest line extending 0.8 mile offshore from the western entrance to Holtz Bay; thence in a general westward direction for 4 miles, approximately 1 mile off and paralleling shoreline; thence along north-south line to eastern entrance to Austin Cove.

Hydrography was executed during the period 28 July-7 August 1945.

Junctures with contemporary surveys: to the eastward with H-7014, ⁽¹⁹⁴⁴⁾ scale 1:10,000; to the north with that part of H-7017 executed during 1944; to the westward with Field No. EX-2445, scale 1:20,000.

H-6867 (1945)

C. VESSEL AND EQUIPMENT:

Hydrographic launches No's. 1 and 2, operating from the USC&GSS EXPLORER, executed the hydrography during the 1945 field season.

Launches No's. 1 and 2 equipped with 808 fathometers, graphic recorder types, C&GS No's. 50 and 51 respectively were used throughout.

D. REDUCTION OF TIDES:

The reduction of tides was based on Steller Cope, portable tide gage, during period of survey.

E. SMOOTH SHEET:

Plotted in Washington Office
Function of Processing Office.

F. CONTROL STATIONS:

Datum USN GANNET 1934. Local triangulation, Roland D. Horne 1944.
Temporarily registered as T-7009
Local topography, traverse method, Field Sheet No. EX-K-45.

G. SHORELINE AND TOPOGRAPHY:

The shoreline and topographic details pertaining to the area of this survey are combined from data from topographic (traverse method) sheet, Field No. EX-K-45 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, characteristic of Aleutian Islands, it was delineated by air photographic inspection. The inspection with regard to offlying rocks, their 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, by the 808 fathometers.

See Hydrographic Report, Field No. EX-2245, paragraph "H. Sounding,"
T-6867, 1945
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.

Boatsheet junctures with contemporary surveys are in close agreement, however the smooth sheet examination, when accomplished, will govern.

Depth curves can be adequately drawn on the boatsheet 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 fms.	Latitude	Longitude	Pos. No., Vol.	Remarks
'Danger	'1 1/6	52°59'.9 N	172°06'.21 E	112 b, 2	Danger to Small craft
"	' 0 ¹⁸	53°00'.05 N	172°07'.1 E	61-62 b 232-233 a, 2	" "
"	'0⁹	52°59'.95 N	172°07'.44 E	49-50 b, 2	" "
"	'⁶2	52°59'.97 N	172°07'.98 E	13-14 b, 2	" "
"	'Awash	52°59'.93 N	172°07'.81 E	117 b, 2	Rock

Respectfully submitted:

E. C. Baum

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

I. R. Rubottom

I. R. Rubottom,
Lieut., C&GS.

Approved and forwarded:

Roland D. Horne

Roland D. Horne,
Comdr., C&GS

No formal review. See note on Review
of original survey.

R.H. Carstens

STATISTICS FOR HYDROGRAPHIC SURVEY H-7017

Survey	Day	Date	Number	No. Sta.	Area Sq.	
Unit	Vol.	Letter	1945	Positions	Miles Sdg.	Sta. Miles
					Lines	
Launch #2	1	a	July 28	242	45.3	
"	#2	1	b	" 29	25	3.1
				267	48.4	4.3
Launch #1	2	a	July 29	72	8.3	
"	#1	2	b	Aug 7	118	12.8
				190	21.1	0.5
Grand Totals				457	69.5	4.8

TIDE NOTES

Reduction of soundings for hydrography, executed during 1945 field season on Hydrographic sheet No. H-7017, is based on tide data from portable tide gage #187 established during 1945 on the westshore of Steller Cove, Attu Island, Alaska. Latitude $52^{\circ}59'.6$ N, longitude $172^{\circ}54'.6$ E. The hourly heights for reduction of records were scaled from the marigrams. The plane of reference of M.L.L.W. is 3.9 ft. on tide staff as derived from Tide Division letter dated 19 June 1945, ref. mlh with respect to re-establishment and leveling during 1945 field season.

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

GEOGRAPHIC NAMES

12 July 1945

SHIP			LANDINGS			
300 fms.		020 fms/sec. fms.	303 fms.		020 fms/sec. fms.	
12.0	to	17.8	-0.2	0.0	to 2.5	0.0
17.9	"	25.0	-0.3	2.6	" 10.0	-0.1
23.1	"	23.2	-0.4	10.1	" 13.2	-0.2
26.3	"	32.8	-0.5	16.3	" 21.5	-0.3
32.9	"	37.5	-0.6	21.6	" 26.5	-0.4
37.6	"	46.5	-0.8	26.3	" 31.5	-0.5
46.6	"	53.5	-1.0	31.6	" 36.2	-0.6
53.6	"	61.3	-1.2	36.3	" 44.2	-0.6
61.9	"	70.3	-1.4	44.3	" 52.2	-1.0
70.4	"	70.4	-1.6	52.3	" 60.4	-1.2
79.5	"	84.5	-1.8	60.5	" 68.6	-1.4
84.6	"	94.5	-2.0	68.6	" 76.5	-1.6
94.6	"	102.2	-2.2	76.6	" 84.5	-1.8
102.3	"	117	-2.5	84.6	" 92.2	-2.0
113	"	136	-3.0	92.3	" 100.5	-2.2
137	"	156	-3.5			
157	"	175	-4.0			
176	"	199	-4.5			

NMC fms.		300 fms/sec. fms.	
0	to	13	0.0
13.2	"	100	+0.2
101	"	203	0.0

For greater depths see
corrections of 17 June 1945.

H-7017
EX-2344

Kumy

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography:~~

May 28, 1946

Division of Charts: H. W. MURRAY

Plane of reference approved in
2 volumes of sounding records for

HYDROGRAPHIC SHEET 7017 (additional work)

Locality North coast of Attu I., 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:

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

GEOGRAPHIC NAMES

Survey No. **H7017**

Additional work

Name on Survey

On Chart No.
 On previous survey No.
 On U. S. quadrangle Maps
 From local information
 On local Maps
 P. O. Guide or Map
 Rand McNally Atlas
 U. S. Light List

	A	B	C	D	E	F	G	H	K	
										1
										2
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .. **H7.017** Additional work

Records accompanying survey:

Boat sheets .. **3.**; sounding vols. **2.**....; wire drag vols.;
 bomb vols.; graphic recorder rolls **1.**....;
 special reports, etc.

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

Number of positions on sheet	.....	457
Number of positions checked	.....	20
Number of positions revised	.....	2
Number of soundings revised (refers to depth only)	.....	5
Number of soundings erroneously spaced	.....	8
Number of signals erroneously plotted or transferred	.....	None
Topographic details	Time	..... 2 hrs
Junctions	Time	..... 1 hr.
Verification of soundings from graphic record	Time	..... 2 hrs.

Verification by *J.A. Dinmore* Total time **37 hrs** Date **6/5/46**

Reviewed by *R.H. Carstens* Time **12** Date **6/12/46**
No formal review

