

7014

Form 504

U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
Field No. 1244 Office No. 7014

LOCALITY

State ~~ALASKA~~ Aleutian Islands
Attu Island
General locality ~~Aleutian Islands~~
Locality Holtz Bay, ~~Attu Island~~

194 4

CHIEF OF PARTY

Lieut. Comdr. Roland D. Horne

LIBRARY & ARCHIVES

DATE FEB 26 1945

7014

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H7014

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-7014

Field No. 1244

State ~~ALASKA~~ Aleutian Islands

General locality Attu Island - ~~Aleutian Islands~~

Locality Holtz Bay

Scale 1:10,000 Date of survey September, 1944

Instructions dated August 14, 1944

Vessel EXPLORER - Launches Nos. 1 & 2

Chief of party Robert D. Horne

Surveyed by F. B. Quinn and J. E. Schultz

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

Protracted by H. C. Parsons

Soundings penciled by H. C. Parsons

Soundings in fathoms and tenths at 1 foot at MLW MLLW

REMARKS:

Smooth Sheet and Plotting by the Seattle Processing Office.

Descriptive Report To Accompany Sheet No. 1244

Date of Instructions:

"Project 218- - Survey of Holtz Bay and Approaches, Attu Island", by Lieut. Comdr. C.M. Durgin, 14 August 1944.

Survey Methods:

Standard survey methods were used throughout this sheet, the eastern portion being accomplished by Launch No. 2 in charge of Lieut. Comdr. F. B. Quinn, and the western portion by Launch No. 1 in charge of Lieut. (j.g.) J. E. Schultz. The control was based on triangulation by the EXPLORER connected with the triangulation of the U.S.E.D. 1943, based on the Gannet (1934) Datum. Planetable positions were used for additional signals and shoreline detail. Additional shoreline detail was taken from air photographs 9-22-43^{and} 9-27-44 which were flown by the U.S. Army Air Corp. The 808 depth recorder was used in both launches with bar checks made three times daily, at the beginning, middle and end of each day's work. Numerous vertical casts were taken with leadlines over the area of the survey and bottom characteristics were noted at the same time.

The sounding lines were run northeast and southwest to obtain a development normal to the beachline. Close to the shoreline inside lines were run parallel to the shoreline. Lines were spaced 70 meters apart. Crosslines were run in accordance with general instructions.

The serial temperature which was taken on August 8, 1944 in Steller Cove is to be used in this Area.

The sheet is complete within the limits of the area covered by this survey. No additional development is recommended.

Comparison with Previous Surveys:

There were no previous surveys of the area. ✓

Discrepancies:

There are no discrepancies in this survey. ✓

Dangers:

A Japanese ship lies 740 meters east of signal Ball in $4\frac{1}{2}$ ✓
fathoms, ³ feet of it is visible above the water.

The water area between Cooper Islands and Kemmon Island, and
southwesterly from Cooper Islands to Attu Island, has dangerous shoal ✓
areas and submerged pinnacles. It is not recommended as a passage for
even small vessels. The ~~important~~ dangers are surrounded by depth
curves on the boat sheet.

83.
PWC

Anchorage:

Safe anchorage, except during northerly weather, may be had ✓
with fine grey sand bottom.

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Statistics:

Number of positions- - - - - 1891 ✓

Number of statute miles of sounding lines- - - 311.3

Tidal Note:

An Auto-portable tide gage was established near topographic sta-
tion Pen during the period of the Survey, and then removed, (Latitude ✓
52°55.54'N, Longitude 173°09.57'E). A staff and three bench marks were
also established at this point. All data ~~was~~ forwarded to Washington
in October 1944.

Recommendations:

There are no recommendations. ✓

Junctions with other sheets:

H-7017 (1944)

This sheet joins field sheet 2344 with the specified overlaps.

General:

A preliminary compilation of this sheet, on a scale of 1:10,000, was supplied to Lieut. Comdr. C. M. Durgin in October 1944.

Quinn
83

Respectfully submitted,

Francis B. Quinn

Francis B. Quinn, Lt. Comdr. C&GS

John E. Schultz

John E. Schultz, Lt. (j.g.) C&GS

Approved and forwarded;

Roland D. Horne

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

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EX 1244

Holtz Bay Attu Island

Seattle Processing Office Notes

Datum-

USN 1934. ✓

Control-

USED triangulation by Sylar 1943 extended by the EXPLORER's party, ✓
Roland D. Horne, Comdg., 1944.

Topographic signals from T-6972 A. & B of 1944. ✓

There are no hydrographic signals. ✓

Shoreline-

Inked shoreline from T-6972 A & B. ~~Pencilled shoreline sketched~~
~~from aerial photographs.~~

826

Plotting Unit-

Fathoms and tenths. ✓

Field Inspection of Photographs-

Topographic signals were described in the report accompanying
the inspected photographs. Certain signals along the shore ledge ✓
whose nature is not indicated on the sheet will be found in that record.

Crossings-

Good ✓

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EX 1244

Holts Bay Attu Island

STATISTICS

<u>Day</u>	<u>Vessel</u>	<u>Vol.#</u>	<u>Statute Mi.</u>	<u>No. of Positions</u>
a	Launch #2	1	43.1	243
b	"	1 & 2	49.5	231
c	"	2	42.3	213
d	"	3	35.4	214
e	"	3	11.3	103
a	Launch #1	4	29.1	248
b	"	4 & 5	44.2	252
c	"	5 & 6	23.4	157
d	"	6	33.1	230
	Total		311.3	1891

Area - Square Statute Miles -----7

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EX 1224

Holtz Bay Attu Island

TIDAL NOTE

Holtz Bay Portable Automatic Gage

Latitude 52° 55.54 N

Longitude 173 09.57 E

Staff reading of MLLW ----- 3.4 feet

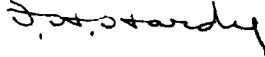
30

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "Edgar E. Smith".

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Approved and Forwarded:

A handwritten signature in cursive script, appearing to read "F. H. Hardy".

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

GEOGRAPHIC NAMES

Survey No.

H7074

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 Is</u>										1
<u>Attu I.</u>				525 725E				USGB		2
<u>Holtz Bay</u>				525 730E				"		3
<u>Goltsov Pt</u>				"				"		4
<u>Cooper Is</u>				"						5
<u>Center Pt</u>				"						6
										7
										8
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										27

Names underlined in red approved
by L. Heck on 8/20/45

Surveys Section (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7114**

Records accompanying survey:

Boat sheets .2...; sounding vols. .6.; wire drag vols.;
bomb vols.; graphic recorder rolls .3...;
special reports, etc.
.....

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

Number of positions on sheet	189).
Number of positions checked	.196.
Number of positions revised	.23..
Number of soundings recorded	10,500 (Approx)
Number of soundings revised (refers to depth only)	...75..
Number of soundings erroneously spaced	...3..
Number of signals erroneously plotted or transferred	...0..
Topographic details	Time ...35..
Junctions	Time ...15..
Verification of soundings from graphic record	Time ...27..
Verification by <i>H.W. Burgoyne</i>	Total time .276. Date <i>June 25, 1945</i>
Review by <i>J.A. McCormick</i>	Time .27 hrs. Date <i>7/25/45</i>

LCC
H.W.M.

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
6 volumes of sounding records for

HYDROGRAPHIC SHEET 7014

Locality Holtz Bay, Attu Island, Aleutian Islands

Chief of Party: R. D. Horne in 1944
Plane of reference is mean lower low water reading
3.4 ft. on tide staff at 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.

DIVISION OF CHARTS

REVIEW SECTION * NAUTICAL CHARTS BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7014

Field No. EX-1244

Aleutian Islands; Attu Island; Holtz Bay
Surveyed in September, 1944, Scale 1:10,000
Project CS-218

Soundings:

808 Fathometer

Control:

Three-point fix on shore signals

Chief of Party- R. D. Horne
Surveyed by - F. B. Quinn & J. E. Schultz
Protracted by - H. C. Parsons
Soundings plotted by - H. C. Parsons
Verified and inked by - H. W. Burgoyne
Reviewed by - J. A. Mc Cormick
Inspected by - H. W. Murray, July 25, 1945

1. Shoreline and Signals

Shoreline and signals are from Graphic Control survey T-6972 a & b (1944), as revised and amended in this office from air photographs.

The shoreline of Cooper Islands, Kenman Island, Inner Rocks & Middle Rocks & off-shore detail was revised to agree with T-8476 by tracing. 1 depth curve was changed to agree with change made on H-6875 3-31-49. 2nd ed. Sounding was changed to keep the same distance off-shore from the revised shoreline of Cooper Islands.

2. Bottom Configuration

Close to shore, the bottom is mostly rocky and foul. A short distance out is good holding bottom in fine sand and shell.

3. Sounding Line Crossings

Agreement at crossings is satisfactory.

4. Adjoining Surveys

A satisfactory junction was effected with H-7017 (1944) on the north. Areas on the east and on the northwest have been surveyed during the 1945 season.

5. Previous Surveys

In 1934, the Navy made a 1:5,000 scale survey of Chichagof Harbor, just to the east of Holtz Bay. This survey, registered in this office as H-6926, overlaps only a very small part of the present work.

Agreement with the present survey is fair. Area covered by H-6926 has already been resurveyed during the 1945 season (see par. 4).

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

Results of the present survey have been applied to the chart from B.P. 38967, compiled by the field party from boatsheets. Differences between smoothsheet and chart seldom exceed one fathom in deep water or $\frac{1}{2}$ fathom inshore and on shoals. Shoreline on the blueprint was mostly sketched with the result that it differs in detail from that on T-6972 a & b (1944). The chart should be brought to agreement with the basic smoothsheet and with T-6972 a & b.

7. Compliance with Project Instructions

The survey was well-executed and complies with special instructions issued by the Liaison Officer at Adak.

8. Additional Field Work Recommended

In some places along shore, as for example in lat. $52^{\circ} 56.5'$, long. $173^{\circ} 12.5'$ and in lat. $52^{\circ} 57.5'$, long. $173^{\circ} 10.5'$, it appears that some additional lines might have been desirable. However, all such instances are in or near foul area and special investigation is not considered necessary at this time.

Examined and approved:

Chart Division

Franko Pierce

Carl O. Henton

Chief, Section of Hydrography

J. S. Borden

Chief, Chart Division

Raymond P. Egan

Chief, Division of Coastal Surveys

See also back cover

NAUTICAL CHARTS BRANCH

SURVEY NO. 7014

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6-21-45	9198	J.M.A.	Before After Verification and Review
4/27/45	9127	P.H.C.	Before After Verification and Review <i>(Partially applied See back cover)</i>
11-7-45	<i>Reconst.</i> 9126	J.M.A.	Before After Verification and Review
11-20-45	9198	J.M.A.	Before After Verification and Review
2-6-45	9127	J.M.A.	Before After Verification and Review <i>Completely applied.</i>
12/7/49		<i>Reconst.</i>	Before After Verification and Review <i>Reconstruction.</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

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.

Partially applied to ch 9127

4/27/45

RHC
