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Form 504							
U. S. COAST AND GEODETIC SURVEY							
DEPARTMENT OF COMMERCE							
O DESCRIPTIVE DEPORT							
DESCRIPTIVE REPORT							
Type of Survey HYDROGRAPHIC							
Field No. DE-4245 Office No.							
LOCALITY							
State Alaska - Aleutian Islands							
General locality Attu Island							
Locality Northeast of Sarana Bay							
Losany							
194 5							
CHIEF OF PARTY							
CL. C. Wilder							
LIBRARY & ARCHIVES							
DATE MAR 1 9 1946							

#### 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.

6874 REGISTER No.

Field No. DE-4245

State Alaska	Aleutian Islands
General locality	eer Islands Attu Island
	orth and Bast of Attu Island Northeast of Sarana Bay
	Date of survey 7 to 28 July 1945
Instructions dated	16 April 1943
Vessel	DERICKSON
Chief of party	L. C. Wilder
Surveyed by	L. C. Wilder
Soundings taken by	graphic recorder, taxatem value
Protracted by	Mafion T. Gwinn
Soundings penciled by	Marion T. Gwinn
Soundings in fathoms	at MANA MLLW
REMARKS: Smooth shee	t and plotting by Seattle Processing Office
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#### DESCRIPTIVE REPORT

To Accompany

Hydrographic Sheet (Field No. DE-4245)

Scale 1:40,000

Off Sarana Bay, North Coast Attu Island, Alaska L. C. Wilder, Chief of Party U.S.C.& G.S.S. DERICKSON 1945

PROJECT: This hydrography was accomplished under Project CS-218, dated 16 April 1943, and supplemental instructions of 1 February 1944 and 29 January 1945.

SURVEY LIMITS AND DATES: This sheet covers offshore hydrography northeastward of sheet H-6991 (SURVEYOR, 1:20,000, approaches to Sarana Bay). It carries out to between 600 and 1200 fathoms. It joins H-7017 and H-7019 to the northwest, H-6939 and H-6936 to the east, and H-6991 to the southwest. This hydrography was accomplished between 7 July and 28 July 1945. The work was accomplished mostly in running to and from working grounds.

VESSEL AND EQUIPMENT: The Ship DERICKSON, with 808A and NMC fatho- meters, was used.

TIDES AND CURRENTS: Tide gages were in operation in Massacre Bay and Chichagof Harbor. No current observations were made.

CONTROL STATIONS: Control consisted mostly of triangulation stations established in 1943 and 1944 by the U.S. Navy, EXPLORER, and SURVEYOR. Several stations located by theodolite cuts by the SURVEYOR in the vicinity of Sarana Bay were used.

SHORELINE AND TOPOGRAPHY: No shoreline was transferred to the sheet. The shoreline is obtainable from compilation of air photographs.

SOUNDINGS: The sounding unit is fathoms. No unusual methods were

CONTROL OF HYDROGRAPHY: Standard three point fixes.

ADEQUACY OF SURVEY: This survey is considered adequate for the area covered.

COMPARISON WITH PRICE SURVEYS AND CHART: This survey covers an area in which there were a few scattered soundings and no comparison can be made.

STATISTICS FOR HYDROGRAPHIC SURVEY HOURSON - 1945

ol. No.	Day Letter	Date 1945	No. Sdgs. H.L.	No. Positions	No. of Statute Miles Sdgs.
1	A	7 July	!	25	13.9
1 '	B	8 July	! !	, 5jt	15.1
1	C	12 July	1	36	24.3
1 '	D	' ' 13 July	1	97	80.2
1	E	' 27 July	3	21	16.3
1 '	F	28 July	1	13	5.4

Sounding with type 808A Depth Recorder and NMC. Continuous profile on all lines.

Area covered by survey = 51.3 sq. statute miles.

DANGERS AND SHOALS: No dangers or shoals were found.

COAST PILOT NOTES: Submitted, under separate report, for the entire -

season's operations.

AIDS TO NAVIGATION: None.

GEOGRAPHIC NAMES: Covered on larger scale inshore surveys.

Respectfully submitted,

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

Chief of Party.

Q.c. Wilder

#### TIDE NOTE

A pertable autematic tide gage was maintained at the U.S.A.A.F. pier in Ohichagof Earber; Latitude 52°-55.9 M. Lengitude 173°-14.2 B. The observed tides at this station were used for the reduction of all seemdings taken on this shoot. Several days tides are missing during the series. When seemding, during these periods, the tide staff was read and these heights have been used in lieu of the marigrams. They are recorded in the seemding for Shoot No. DB-025245. The height of mean lover low water and mean high water correspond to readings of 3.3 feet and 6.9 feet, respectively, on the tide staff. (See Director's letter of 24 August 1945, reference 36-alh). We time or height corrections have been applied to the observed tides.

#### APPROVAL SHEET

30 November 1945

6874

The records and boat sheet for Survey H\_\_\_\_\_\_(DE\_4245) 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.

L. C. Wilder

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

C.c. Wilden

Chief of Party.

#### PROCESSING OFFICE NOTES

#### DATUM

U.S.N. (Gannet) 1934.

#### CONTROL

All signals are computed points, triangulation or fourth-order topographic stations.

#### CROSSINGS

Good.

#### BOAT SHEET

Field work is unfinished. Boat sheet has been retained for additional work in 1946. - (extension of limits)

#### GEOGRAPHIC NAME LIST

H-6874 (DE-4245)

North and East of Attu Island

Geographic names penciled on smooth sheet:

ATTU ISLAND

BERING SEA

#### APPROVAL SHEET

Respectfully submitted,

Cart. Engineer

Forwarded, approved:

F.B.T.Siems, Capt., C&GS Officer in Charge

Seattle Processing Office.

GEOGRAPHIC NAMES Survey No. <b>H6</b> {	374		/	Jous sul	diadia	no ior	Mags	ide of	CHally	· Jagrije	"
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Attu Island										ц	2
Grana Bay											3
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# Hydrographic Surveys (Chart Division)

# hydrographic survey no. ... H6874

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Records accompanying survey:	
Retained by Boat sheets field; sounding vols. 1; wire dra	ag vols;
bomb vols; graphic recorder rolls .2;	
special reports, etc	• • • • • • • • • • • • •
	• • • • • • • • • • • • • •
The following statistics will be submitted with the rapher's report on the sheet:	cartog-
Number of positions on sheet	2116
Number of positions checked	. 27
Number of positions revised	4
Number of soundings revised (refers to depth only)	.3
Number of soundings erroneously spaced	\$
Number of signals erroneously plotted or transferred	
Topographic details - Stations research Time	12. hrs
Junctions Time	.20 hrs
Verification of soundings from graphic record Time	Zihn
Verification by F. B	. Date 6/14/44.
Reviewed by	Date Pay/www

#### DIVISION OF CHARTS

#### REVIEW SECTION - NAUTICAL CHART BRANCH

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 6874

FIELD NO. DE-4245

Alaska-Aleutian Islands, Attu Island, Northeast of Sarana Bay Surveyed in July 1945 Scale 1:40,000 Project No. CS-218

Soundings:

Control:

808A Fathometer NMC Fathometer Three-point fixes on shore signals

Chief of Party - L. C. Wilder
Surveyed by - L. C. Wilder
Protracted by - M. T. Gwinn
Soundings plotted by - M. T. Gwinn
Verified and inked by - F. H. Bell
Reviewed by - G. F. Jordan, June 24, 1946
Inspected by - H. W. Murray

#### 1. Shoreline and Control

The source of control is explained in the descriptive report.

No shoreline is shown on this offshore survey.

#### 2. Sounding Line Crossings

Satisfactory.

#### 3. Depth Curves and Bottom Configuration

Depth curves could be satisfactorily drawn.

This small survey shows no outstanding features in the 50 to 1200-fm. depths on the northeast side of Attu Island.

#### 4. Junctions with Contemporary Surveys

Satisfactory junctions are effected on the west with H-7017 and H-7019 (1944-45) and on the south with H-6939 (1943-44). The junction in the east with H-6936 (1943) is satisfactory except for a 60-fm. disagreement at a crossing in 900-fm. depths at lat. 52° 58', long. 173° 31.2'. The deeper conflicting sounding from H-6936 (1943) has been omitted. Junctions on the southwest will be considered when H-6991 (1944) and H-7088 (1945) are verified.

#### 5. Prior Surveys

There are no prior surveys by this Bureau in this area.

#### 6. Comparison with Chart 9198 (Print date of Feb. 2, 1945)

#### a. Hydrography

Depths under 100 fathoms charted from overlapping surveys agree with the present survey. However, soundings on the present survey are 200 to 400-fm. shoaler than charted 720 to 1195-fm. soundings carried forward from H.O. Chart Misc. No. 10253-1. The present survey, within the area covered, should supersede the charted hydrography.

#### b. Aids to Navigation

No aids to navigation are charted in this area.

#### 7. Condition of Survey

8.

- a. The sounding records and the descriptive report are complete in all detail and the smooth plotting is satisfactory.
- b. Only three closely-grouped bottom characteristics were obtained in the 50 square mile area of the survey.

#### Compliance with Project Instructions

The survey satisfactorily complies with the project instructions.

Attention is directed to paragraph 3842 of the Hydrographic Manual, especially to the seventh sub-paragraph, regarding bottom characteristics.

#### 9. Additional Field Work Recommended

This is a basic survey and no additional work is recommended. (See par. 7b, above).

# H-6874(1945)-3-

Chief, Nautical Chart Branch

Chief, Section of Hydrography

Examined and approved:

Chief, Chart Division

Chief, Division of Coastal Surveys

É.,

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

May 24, 1946

Division of Hydrography and Topography:

Division of Charts: H. W. MURRAY

Plane of reference approved in l volumes of sounding records for

HYDROGRAPHIC SHEET 6874

Locality Near Islands, Alaska

Chief of Party: 1. 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.

в. сотпажения размене органа 15433

## NAUTICAL CHARTS BRANCH

# SURVEY NO. H6874

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/5/46	9127	La MoGam	Before After Verification and Review
3/12/47	8865	25 walker	Before After Verification and Review Completely
3/26/47	9198	Af Stegman	Before After Verification and Review Completely
12/8/19	9127-	De France	Before After Verification and Review Pecans Frue 150
4/7/59	9128	HEaton	Before After Verification and Review Reconstruction
			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.