7068

Form 504

U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No.DE-05145 Office No. H- 7068

LOCALITY

ALASKA - ALEUTIANS

General locality ATTU ISLAND

Locality Approaches to Chichagof Harber

194 5...

CHIEF OF PARTY

L. C. Wilder

LIBRARY & ARCHIVES

DEC 21 1945 DATE

B-1870-1 (1)

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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. DE 05145

REGISTER NO.

State	Alaska - ALeutians
General locality	Attu Island
Locality	Approaches to Chichagof Harbor
Scale 1:5,000 Da	ate of survey 21 July - 2 Aug. , 19 45
Vessel	DER ICK SON
Chief of Party	L. C. Wilder
Surveyed by	L.C.Wilder, John Laskowski, J.E. Waugh
Protracted by	P. M. Fisher
Soundings penciled by	P. M. Fisher
Soundings in fathoms 2	ertx Fathoms AND TENTHS
Plane of reference	KITA
Subdivision of wire dra	agged areas by
Inked byHerbert	N. Burgoyne
Verified by	W. Burgoyne
Instructions dated	16 April , 19 43
Remarks: Smooth Sho	et and Plotting by the
Seattle	Processing Office

U. S. GOVERNMENT PRINTING OFFICE

Sounded with Recording Fathometer

DESCRIPTIVE REPORT

To Accompany

Hydrographic Sheet 7068 (Field No. DE-05145)

Scale 1:5000

Approaches to Chichagof Harbor, 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, instructions dated 16 April 1943. Supplemental instructions were dated 1 February 1944. Instructions by Capt. F. B. T. Siems dated 7 June 1945 and 6 July 1945, Project 30.

SURVEY LIMITS AND DATES: The locality of this work is the approaches to Chichagof Harbor, including the channels among the islands off that harbor. The following are the adjoining hydrographic sheets: on the south, sheet No. DE-025245, (7067) scale 1:2500, USC&GSS DERICKSON, 1945; to the west and northwest, sheet No. H-7014, scale 1:10000, USC&GSS EXPLORER, 1944; to the north and east, sheet No. DE-1145, scale 1:10000, USC&GSS DERICKSON, 1945. Dates of the survey: 21 July to 2 August 1945.

VESSELS AND EQUIPMENT: The DERICKSON'S 26-foot motorsailer and the EXPLORER'S 30-foot Launch No. 3 were used.

All work was done by personnel from the Ship DERICKSON. The DERICKSON'S launch was in charge of L. C. Wilder and the second launch in charge of John Laskowski. Both launches were equipped with 808A Fathometers. The turning radius of the smaller launch is 10 to 15 feet; that of the larger launch 15 to 25 feet.

TIDE AND CURRENT STATIONS: A portable automatic tide gage was located in Chichagof Harbor tended by Army personnel. No current stations were occupied.

CONTROL STATIONS: Triangulation stations used for control of the graphic control sheet were 1944 stations of the Ships EXPLORER and SURVEYOR and 1943 stations of the U. S. Engineers. The topographic stations were located on Sheet DE-E-45, scale 1:5000.

SHORELINE AND TOPOGRAPHY: Very little shoreline was run in on the topographic sheet as photographs were available. These photographs were field inspected by personnel from the Ship DERICKSON in 1945. (Not compiled as yet)

500 T-8476 (1947)

0

SOUNDINGS: No unusual methods of depth measurement were used. Soundings were by 808A Fathometer with bar checks three times per day. Soundings were read in fathoms and tenths. Soundings through the channel into Chichagof Harbor west of Kennon Island were read in feet as the channel is very shoal in places.

The entire area of the hydrography, including kelp patches and that adjacent to the shoreline, was searched at or near low water to make certain that no offlying rocks or reefs were missed between lines

of hydrography.

All kelp patches and shoals, except those of very minor importance because of their location with respect to possible channels or tracks which even small craft might follow, were searched carefully with fathometer and handlead. It is believed that all dangers to small and large craft were located except possibly in the very thick kelp patch extending a distance of 150 yards south of the south end of the Cooper Islands. This was searched on several occasions but kelp was very thick and it cannot be guaranteed that a danger was not missed.

CONTROL OF HYDROGRAPHY: Usual three point fixes. For the most part each launch had an officer in charge plotting and two anglemen. Both launches were operated under slow bells for a number of reasons, this enhancing the accuracy of the work.

ADEQUACY OF SURVEY: This is considered a particularly thorough survey and about the only means to improve it would have been to remove the kelp or spend days in these kelp patches. In my estimation the requirement for sounding in kelp patches has been tightened to such extent in recent years that some thought or experimentation should be given to removal of the patches or a better means of sounding therein developed. Amen.

COMPARISON WITH PRIOR SURVEYS: This survey joins and overlaps Hydro-graphic Survey H-7014, scale 1:10000, 1944. Agreement between the two surveys appears satisfactory.

COMPARISON WITH CHART: The area of this survey covered by Chart 9126 appears little better than reconnaissance and no suitable comparison can be made. On the 2 fathom spot charted about midway between Middle Rocks and Pisa Point, a least depth of 3.5 fathoms was obtained in 1945, after a thorough search.

DANGERS AND SHOALS: The following shoals and dangers should be checked against the smooth sheet after completion:

Area	Latitude N.	Longitude E.
-	0 1 11	O 1 H
Foul area, heavy kelp patch (RKs awash)	52-57-06	173-15-17,
1.2° fathoms, edge of kelp	57-01 .	15-3ኛ¹
+6-2.35fathoms, kelp	56-59	15-364

Area	Latitude N.	Longitude E.
1.3 3.0 fathoms, kelp	52-57-0 ⁴⁵	173-15-442
1.0 Q.9 fathoms, kelp, rocky	57-03	16-00
Rock bare, } tide	56-55	15-28 V
Rock, Q.5 fathoms	56-50	15-25
OFfm Rock awash NLLW	56-42	15-20
1.82.4 fathoms, kelp, rocky	56-28	15-59 Lyon
3.57 fathoms, kelp, rocky	56-31	16-08
4.74.5 fathoms, kelp, rocky	56-46	16-08

COAST PILOT HOTES: These notes will be submitted with the total notes for the season.

aIDS TO NAVIGATION: The only aid to navigation on this sheet is a black spherical buoy (which should be left on the starboard hand in entering Chichagof Harbor) located in Latitude 52-56-23 and Longitude 173-15-52. This is a temporary buoy maintained by the War Department.

IANDMARKS FOR CHARTS: These will be submitted on Form 567 for the season's work. The only landmarks which should be charted are Pisa Tower and the observation tower 1 mile west of Kennon Island.

GEOGRAPHIC NAMES: The only known geographic names are those already charted.

L. C. Wilder, Lt.Comdr.

John Laskowski, Dt. Comdr.

corrections made from smooth sheet plotting - E.E.S.

STATISTICS FOR HYDROGRAPHIC SURVEY H-7068 (DE-05145)

LA	UNCH	NO.	3

		<u> </u>			
Vol. No.	Day Letter	Date 1945	No. Sdgs.	No. Positions	No. of Statute Miles Sdgs.
1	i <u>a</u> .	21 July	1	210	15.5
1	, P	23 July	1 3	136	7.1
2	t c	27 July	1	161	11.1
2	' d '	28 July	18	, , 9 , 1	5.8
		TOTALS	21	601	39.5
			OTORSAILER		
Vol. No.	Day Letter	Date 1945	No. Sdgs.	Ne. Positions	No. of Statute Miles Sdgs.
		1	•		
3	! ! a. !	21 July	4	143	12.0
3 3	1 a. 1	21 July 25 July	· 4	143 191	12.0
-	1 1	•	1	1	1

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

Area covered by survey = 1.02 sq. statute miles.

62

1007

TOTAL FOR SHEET

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BAR CHECK CORRECTIONS - SHEET NO. DE-05145

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+ 0.6	8.3	11.0	13.4	17.3	3.6	4.4	+0.6	
+ 0.4	11.1	14.5	17.4	21.0	4.5	5.2	+0.4	
+ 0.2	14.9	19.0	21.1	25.0	5.3	5.2	+ 0.2	
+ 0.4	•	, ,		• • •	8.3	13.1	+0.4	
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Chichagof Harbor

Attu Island

TIDE NOTE

A pertable autematic tide gage was maintained at the U.S.A.A.F. pier in Chichagof Harber; Latitude 529-55.9 M. Lengitude 1739-14.2 E. The observed tides at this station were used for the reduction of all soundings taken on this sheet. Several days tides are missing during the series. When sounding, during these periods, the tide staff was read and these heights have been used in lieu of the marigrams. They are recorded in the sounding, for Sheet Me. DE-025245. The height of mean lever lew vater 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-mih). We time or height corrections have been applied to the observed tides.

APPROVAL SHEET

1 November 1945

The Records and boat sheet for Survey No. DE-05145 are approved.

The Records were examined frequently in the field, generally daily. The Chief of Party was in charge of one of the launches on the survey.

The survey is considered complete and adequate. The descriptive report covers all pertinent details.

L. C. Wilder, Chief of Party.

C.c. Will

H-6875 Sheet DE 1145-

There are on DE 1145 several sounding lines which overlap DE 05145 in the area between Gibson Island and Kennon Island. The sheet is not available at this time. The field party planned to survey the outer part of Chichagof Harbor on a 1:10,000 scale, sheet DE 1145, and ran a few lines; then increased the scale of the sheet to 1:5,000 and made the survey on DE 05145. (# 7048)

Respectfully submitted,

Cartographic Engineer Seattle Processing Office

Approved and Forwarded,

F. B. T. Siems Officer in Charge, Seattle Processing Office.

DE 05145 H-7068

Chichagof Harbor - Attu Island

Seattle Processing Office Notes

Datum-

USN GANNET 1934, assuming station CHIC 1943 as a recovery of the Navy astronomical station. It is now known that this assumption is not correct, but the datum of all field sheets for the new work, beginning with the 1943 season, are based upon it.

Chic 1943 about 50 -60 meters wast of Astronomic Piece.

Shoreline-

T- (7003) 1945

Topographic signals were transferred from Sheet DE-E-45. All topographic detail shown on that sheet was transferred and is shown on the smooth sheet in black ink. In addition to the features shown on Sheet DE-E-45, the following shoreline is also shown on the smooth sheet in black ink:

7005 b

From DEXC+45: The shoreline from a point 90 meters south of signal ZED to signal SIS, and from signal RED to a point east of signal AMY, also the islands in the vicinity of signal USE. Reduced from scale 1:2,500 by pantograph.

From DE-D-45: The shoreline and offlying features in the vicinity

(7004) 1945 of signal PISA TOWER 1945. Enlarged from scale
1:10,000 by pantograph. See comments under "Air
Photographs", page 3, in Desc. Report for this topo
sheet.

Rocks-

All encircled rocks in pencil are separately located by the hydro party. Other pencilled rocks are from the Boat Sheet. The field party has examined these details on the smooth sheet.

Air photographs of this area including Gibson Island have been inspected in the field and submitted to the Washington Office. It is suggested that they be examined for further details in the foul areas.

Photos not compiled = 5/20/46

Crossings-

No bad crossings are noted. The bottom is extremely irregular, \sim with numerous offlying rocks and kelp patches.

DE 05145

Chichagof Harbor - Attu I.

Geographic Names Pencilled on Smooth Sheet

Attu I.

Bering Sea

Chichagof Hbr.

Kennon I.

Gibson Islands

Cooper Islands

Middle Rocks

Pisa Tower - leaning rock

Inner Rocks

Channel west of Kennon Island-

This small boat channel appears to have a controlling depth of 7 feet which is in the southern approach. For this channel only, the boat sheet soundings are in feet.

chart of

should

inco

Landmarke

Observation tower a quarter of a mile west of Kennon Island. This identical with triangulation station TOWER 1944 and it is described as "a small observation building with a square base and cylindrical superstructure with a cone shaped top. Approx. elevation above HWM 220 feet." This is taken to be height of ground, as it is charted on 9127 above the 200 ft. contour. It was also shown on the preliminary chart issued in the field. This is believed to be a fire control tower, and it is suggested that the Commanding General, Alaskan Dept., A.P.O. 942, be consulted if the use of the object as a landmark is proposed to be continued on declassified or restricted charts.

Signal ORA-

This signal at the north edge of the sounded area was located by three good planetable cuts on DE-E-45. It is a small rock 5 feet high deere North of this position is a rock awash which is five feet above MLW. With the small range of tide, such a rock would show at all tides and could not have been missed by the 1945 party which found a chart ten fathom sounding at that place. It is believed that the two rocks are *(3)" identical; that the position on DE 95145 is correct; that it is two to five feet above M.H.W. Rock on M-7014 was estimated 15 m. from line, uncovered 41ff at if if 17d4. Platted rock amount at topo. position, awash at M.H.W. rejecting Hydro. position, awash

Comparison with H-7014-

In the common area south of Cooper Island, the two sheets give substantially the same information. There are small differences as may be expected in broken bottom.

Lat	itude	Longi tude	H-7068 DB 05145	H-7014	ta.
52°	57/10"	175° 15' 15"	1 1m.	1.5 fm.	Adjusted.
52	57!07"	175 15' 23"	5,9 fm.	5,0 fm.	Fathograms
52	56.59	175 15 54	1,6 fm.	1.72.6	rescanned.

Other differences are of this order.

GEOGRAPHIC NAMI Survey Non 70	20	Chor.	C C C	S. Mag.	To the state of th	Or local Made	O Girle of	A SOUTH CHEST	ALIES LIGHT	, ;; /
Name on Survey	A	/ B	/c	<u> </u>	E	<u></u>	G	/н	<u>/ ĸ</u>	\angle
Attu Island	d								USFB	1
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Chichagof H. Bering Sea	ALCONO.								USF B	3
Kennon Islan										4
Cooper Islan										5
Gibson Island										6
Middle Rocks										7
INNER ROCKS	-									8
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Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO H7068...

Records accompanying survey:		
Boat sheets .1; sounding vols. 4; w	ire drag	g vols;
bomb vols; graphic recorder rolls 1 tracing from Boat Sheet,	. 2 ; k -1 over1	cy treein g
special reports, etc	tions & I	nstrumental Error
The following statistics will be submitted wi rapher's report on the sheet:	th the	cartog-
Number of positions on sheet		1007.
Number of positions checked		.89
Number of positions revised		
Number of soundings revised (refers to depth only)		20
Number of soundings erroneously spaced		• • • •
Number of signals erroneously plotted or transferred		
Topographic details	Time	4
Junctions	Time	
Verification of soundings from graphic record	Time	24
Verification by Herbert. W. Burgoyne Total time		•
Reviewed by	26	Dete 5/21/76

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 7068

FIELD NO. DE-05145

Alaska-Aleutians, Attu Island, Approaches to Chichagof Harbor Surveyed in July and August, 1945 Scale 1:5,000 Project No. CS-218

Soundings:

Control:

808A Fathometer Lead line

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 - P. M. Fisher Soundings plotted by - P. M. Fisher Verified and inked by - H. W. Burgoyne

Reviewed by - G. F. Jordan, May 21, 1946

Inspected by - H. W. Murray place in the vicinity of (Nip) was fransferred from 1-8476

The shoreline of cooper Estands, Gibson Islands, Lennon Island, Inner Rocks, Middle Rocks and off shore detail was revised to agree with T-8476

1. Shoreline and Control

All transfers for visions were collarged to agree with Union by projector. I depth write was change to agree with change and on N. 6875

| Sounday was change to keep the some distance off-shore from the revised T-7003, T-7004, T-7005 of 1945 and T-6972b (1944). The cooper Estandar pencilled shoreline is from a H. S. Navy survey (H-6926) at 1944

pencilled shoreline is from a U. S. Navy survey (H-6926) g-3/49 as shown on chart 9126. Field inspected air photos of the area have not been com-

piled.

Sounding-line Crossings

Satisfactory.

Depth Curves and Bottom Configuration

Depth curves on shoals and in deeper areas could be satisfactorily drawn. Complete inshore curves are prevented by the impracticability of echo sounding in dense kelp.

The bottom is very irregular and has many submerged reefs. Dense kelp abounds in the area.

4. Junctions

Satisfactory junctions are effected on the southwest with H-7067 (1945) and on the north with H-7014 (1944). The large overlap with H-7014 necessitated considerable rescanning of fathograms to effect agreement of depths and depth curves. The survey on the east, H-6875 (1945), is not verified.

5. Comparison with Prior Surveys

There are no prior surveys by this Bureau in this area. A 1934 survey by the U. S. Navy (H-6926) is considered in paragraph 6, below.

6. Comparison with Chart 9126 (Latest print date June 6, 1944)
Chart 9127 (Latest print date April 28, 1945)

a. Hydrography

These charts are compiled from the Navy survey, H-6926 (1934), with the addition of soundings from H-7014 (1944) on chart 9127. Outside the entrance to Chichagof Harbor, the Navy survey is a reconnaissance nature. The agree-3 ment with the present survey is satisfactory.

- (1) The rock awash and southerly sunken rock (chart 9126) Realling near 10-fm. depths on the present survey at lat. 52° 57' 07", long. 173° 15' 39" should be disregarded. However, the northerly sunken rock should be retained, inasmuch as investigation of these rocks is not indicated on present surveys. These rocks, or reefs, originate with an 1855 Navy survey (H.O. Chart No. 55).
- (2) The following charted rocks were transferred to the boat sheet by the field party and were not investigated. They originate with the 1934 Navy survey (H-6926) and should be retained. (The following positions are on the datum of the present survey).

(3) The charted rocks awash falling on a shoal with least depth of 3.5 fm. on the present survey at lat. 52° 56' 33", long. 173° 16' 08", should be disregarded.

The 3.5 fm. is the result of close developement and drift sounding. The rocks awash, originating with an 1855 Navy survey (H.O. Chart No. 55), are considered to have misrepresented a heavy kelp patch.

- (4) Sunken rocks charted southwest from the rocks awash noted in the paragraph above should be disregarded. The rocks originate with the 1934 Navy survey (H-6926) and are considered to be a general representation of kelp and foul area. Several rocks awash were located and least depths were obtained on submerged reefs on the present survey.
- (5) The charted 22-fm. sounding falling in 3.7-fm. depths on the present survey at lat. 52° 56' 30", long. 173° 16' 08", should be disregarded. Present development is adequate to supersede the 1855 Navy/survey which is the source of the sounding.

nath (6) The charted 41-fm. sounding falling on a 6.1-fm. with shoal on the present survey at lat. 52° 56' 50.5", long. 173° 15' 52.0", should be retained. This sounding originates with the 1934 Navy survey (H-6926). Close developyou ment was accomplished on the present survey, but there was no detached investigation over the 6.1-fm. sounding.

Aids to Navigation

No aids to navigation are charted in this area. Three temporary buoys were located on the present survey.

7. Condition of Survey

- The sounding records and descriptive report are complete in all detail; the smooth plotting is very good.
- The survey was very well executed and included a large b. amount of close development and detached investigation which was accomplished in a difficult kelp-laden area. However, the following shoals were not investigated for least depth.
- Lat. 52° 57' 09.5", long. 173° 15' 14.5" 1-fm. recording blends with initial in kelp area.
- Lat. 52° 57' 05.5", long. 173° 15' 42.5" 1.3-fm. recording appears as a side echo in 8-fm. depths. Lat. 52° 57' 20", long. 173° 15' 30" shoal area with undeveloped depths of 2.3 to 4.1 fms., 200 meters off point of island in 20-fm. depths.
- The smooth sheet sent to the Washington Office was cut to a size of 21 x 24 inches. To facilitate handling, it is suggested that the maximum size should be not less than 36 x 36 inches.
- Compliance with Project Instructions

Satisfactory.

MININUM EN

H-7068(1945)-4-

9. Additional Field Work Recommended

Investigation of shoal areas referred to under (2) and (3) in paragraph 7 above is desirable.

Examined and approved:

Chief, Nautical Chart Branch

Pobert Which

Chief, Section of Hydrography

Chief, Chart Division

Chief, Division of Coastal Surveys

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

22 January 1946

Division-of-Hydrography-and-Topography:

Division of Charts: Attention: H. W. MURRAY

Plane of reference approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET 7068

Locality Approaches to Chichagof Harbor, Attu Island, Aleutian Islands, 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.

s. esvigiment renture option 1542;

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H7068</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
1/18/46	9126	A/7 Stegman	Before Ster Verification and Review critical pages prom penciled sheet to reconstruction drug proposes from penciled sheet to reconstruction drug proposes
//		,	from penciled steel to reconstructionaring 1/19 1/2
2-1-46	9127	3.m.a.	Before After Verification and Review for cutical sage.
2-1-46	9198	3. m.a.	Before After Verification and Review correction necessary
		4.7. Atigman	Before After Verification and Review applied several:
12/14/49	WZ7 Z	Straw	Price After Verification and Review applied reversions only applied Partially Crictical adja and changes only applied Before After Verification and Review Reconstruction
5-8-63	8865	Su Troging &	After Verification and Review
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			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.