

7030

Diag'd. on Diag. Ch. No. 8860-3

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
Su 025145 Sub-plan
Field No. SU-05145 Office No. H-7030

LOCALITY

State ALASKA
General locality COLD BAY, ALASKA PENINSULA
Locality LENARD HARBOR

1945

CHIEF OF PARTY

C.D. MEANEY, Commanding Ship SURVEYOR

LIBRARY & ARCHIVES

DATE MAR 31 1947

B-1870-1 (1)

7030

MAR 31 1947

Form 537
(Ed. Nov. 1941)

DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

REG. NO. H7030

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-7030

Field No. SU-05145 & ~~SU-05145~~

State Southwest Alaska

General locality Cold Bay, Alaska Peninsula

Locality Lenard Harbor

Scale 1:5,000 & ~~1:2,500~~ Date of survey April 24 - May 8, 1945

Instructions dated April 20, 1945 & May 4, 1945

Vessel SURVEYOR

Chief of party C. D. Meaney

Surveyed by R. C. Rowse W.R. Porter (Sub-plan)

Soundings taken by fathometer, graphic recorder, hand lead ~~hand lead, voice~~

Protracted by Betty B. Jones & D. W. O'Melveny

Soundings penciled by Betty B. Jones

Soundings in fathoms (Feet on Sub-plan) ~~feet~~ at MSL ~~MSL~~ MLLW
and fathoms

REMARKS: Processed in the Seattle Processing Office

Descriptive Report

To accompany

Hydrographic Sheet H-7030 (Field No. SU-05145)

Lenard Harbor, Cold Bay, Alaska Peninsula

1945

Scale: 1 to 5000

Chief of Party: C.D. Meaney

Field Work by: R.C. Rowse

A. Project: This survey was made at the request of the U.S. Navy to facilitate maneuvering and anchoring landing craft. Instructions were received at Dutch Harbor April 20 to proceed to Cold Bay and execute surveys requested. Written instructions were issued by the U.S. Navy on May 4, 1945.

B. Survey Limits and Dates: This survey covers that portion of Lenard Harbor from its head to a junction with H-7030⁽¹⁷⁴⁵⁾ at about Longitude 162° 26'W. It also joins ~~H-7029~~^{H-4886}. Field work was accomplished during the period April 24 - May 8, inclusive.

C. Vessels and Equipment: Launches Nos. 2 and 4 and Type 808 Depth Recorders were used.

The launches operated from the ship.

The turning radius of the launches was approximately fifteen meters.

D. Tide and Current Stations: A portable tide gage, used for reducing all soundings, was maintained at Cold Bay thruout the period of this survey.

No. current stations were occupied.

E. Smooth Sheet: The smooth sheet will be constructed and plotted by the Seattle Processing Office.

F. Control Stations: All signals other than existing triangulation were located by topography on sheets Nos. 7-6985 and 7-6986^{of 1945}.

G. Shoreline and Topography: Shoreline and signals to be obtained from sheets Nos. 7-6985 and 7-6986.

H. Soundings: All depths were measured by the 808 Type depth recorder. Standard procedure was used thru out.

I. Control of Hydrography: The sounding lines were adequately controlled by sextant fixes.

J. Adequacy of Survey: The survey was accepted as adequate by the U.S. Navy.

K. Crosslines: Crossings are good.

L & M. Comparison with Chart: Closer development was obtained on this survey than on previous ones. The results compare favorably with earlier surveys.

N. Dangers and shoals: No dangers or shoals not already charted were discovered.

P. Aids to Navigation: No aids to navigation have been established in this area covered by this report.

Q. Landmarks for Charts: No changes.

Respectfully submitted:

Roger C. Rowse
ROGER C. ROWSE
Lt. Comdr. C. & G. Survey

Approved:

C.D. Meaney
C.D. MEANEY
Lt. Comdr., C. & G. Survey
Comdg. Ship SURVEYOR

Descriptive Report

To accompany

Insert on Hydrographic Sheet H-702³⁰9 (Field No. SU-~~62~~⁶5145)

Lenard Harbor, Cold Bay, Alaska Peninsula

1945

Scale: 1 to 2500

Chief of Party: C.D. Meaney, Commanding Ship SURVEYOR 1945

Field Work by: Wilbur R. Porter.

A. Project: This detailed survey of a portion of Lenard Harbor was made at the request of the U.S. Navy to facilitate practice landings. Instructions were received at Dutch Harbor April 20 to proceed to Cold Bay and make surveys requested. Written instructions were issued by the U.S. Navy May 4, 1945.

B. Survey Limits and Dates: This survey covers the water adjacent to about one mile of sand beach on the north shore of Lenard Harbor. It joins with sheet H-7030 executed at the same time. Field work was accomplished during the period April 24 - 28, inclusive.

C. Vessels and Equipment: This survey was executed using Launch No. 2 and Type 808 Depth Recorder No. 59 and a whaleboat and hand lead. The launch and whaleboat operated from the ship.

The turning radius of the launch was approximately 15 meters.

D. Tide and Current Stations: A portable tide gage, used for reducing all soundings, was maintained at Cold Bay throughout the period of this survey.

No current stations were occupied.

E. Smooth Sheet: The smooth sheet will be constructed and plotted by the Seattle Processing Office.

F. Control Stations: All signals used were located by topography based upon existing triangulation in the area.

G. Shoreline and Topography: Shoreline and signals are to be obtained from Topographic sheet No. 6985 (SU-A-1945). (1945)

H. Soundings: Standard methods were employed to obtain depths. Soundings inside the one fathom curve were obtained by leadline. All other depths were measured by the 808 Type depth recorder.

I. Control of Hydrography: The sounding lines were controlled by sextant fixed at approximately one minute intervals.

J. Adequacy of Survey: The following is quoted from a letter dated August 27, 1945 and signed by J.J. Conway, Lt. Comdr. U.S.N.R., Harbormaster. "The site for operating amphibious landing craft as developed in the survey accomplished by the SURVEYOR in May 1945 has proven practical and satisfactory. All landings were made on the surveyed beach without casualty."

K. Crosslines: Crossings are good.

L. & M. Comparison with Chart: Much closer development was obtained on this survey than on previous ones. The results compare favorably with earlier surveys.

N. Dangers and shoals: No dangers on shoals not already charted were discovered.

P. Aids to Navigation: No aids to navigation have been established in the area covered by this report.

Q. Landmarks for Charts: None.

Respectfully submitted,



WILBUR R. PORTER
Lt. Comdr., C. & G. Survey

Approved:



C.D. MEANEY
Lt. Comdr., C. & G. Survey
Commanding Ship SURVEYOR

List of Stations on

Sheet No. SU-05145

H-7030

Name used in
hydrographic survey

Origin of station

Abe	SU-A	T-6985 (1945)
BLACK	BLACK	1923
Box	SU-B	T-6986 (1945)
Buoy	SU-A	T-6985
Cal	SU-B	T-6986
Cat	SU-A	T-6985
CUT	CUT	1923
Dog	SU-A	T-6985
DUB	DUB	1923
Eat	SU-A	T-6985
Far	SU-A	T-6985
Gab	SU-A	T-6985
Gal	SU-A	T-6985
HOOK	HOOK	-1923
Hot	SU-A	T-6985
Jog	SU-A	T-6985
Keg	SU-A	T-6985
Lost	SU-A	T-6985
Man	SU-A	T-6985
Nat	SU-A	T-6985
NOL	NOL	1923
Old	SU-A	T-6985
ROCK	ROCK	1923
Run	SU-A	T-6985
Red	SU-B	T-6986
Saw	SU-A	T-6985
Tow	SU-A	T-6985
Vim	SU-A	T-6985
WILD	WILD	1923
Zoo	SU-B	T-6986

Statistics for Hydrographic Survey H-703D

Ship SURVEYOR

Project: Cold Bay Special

Day	Date	Volume	No. of Pos.	Stat. Miles
LAUNCH no. 2				
a	4/24	1	215	24.5
b	4/27	1	155	18.8
c	4/28	2	90	8.9
LAUNCH No. 4				
a	5/2	3	77	7.3
b	5/3	3	263	26.3
c	5/4	4	93	12.6
d	5/7	4	86	7.0
e	5/8	5	289	25.0
TOTAL			808	78.2

Area - 1.8 sq. mi.

Statistics for Hydrographic Survey H-702³⁰ (1945) *Subplan*

Ship SURVEYOR

Project: Cold Bay, Special

Day	Date	Vol.	No. of Pos.	No. Stat. Mi.	No. Sdgs. (H.L.)
Launch No. 4					
a	Apr. 24	1	150	6.9	--
b	" 27	1 & 2	84	7.2	--
c	" 28	2	87	4.3	--
Whale Boat					
a	Apr. 27	1	37	1.5	123
Total			358	19.9	123

Area - 0.1 sq. miles

Tide note for Hydrographic Survey H-7030

Tide Stations: Cold Bay, Alaska Peninsula

Latitude $55^{\circ} - 12.4'N$

Longitude $162^{\circ} - 41.9'W$

All tidal data for this survey was obtained from the Cold Bay gage. The plane of mean lower low water corresponds to a staff reading of 3.8 feet.

Reference: Director's letter of 24 May, 1946.

FATHOMETER CORRECTIONS

Sheet No. SU - 025145

H-7030 (Subplan)

Launch No. 4 "a" day.

"A" Scale

Depth	Correction
0 to 32 ft.	- 0.2 ft.
32.1 " 34.5 "	- 0.4 "
34.6 " 38.0 "	- 0.6 "
38.1 " 48.0 "	- 0.8 "
"B" Scale	- 0.6 "
"C" Scale	- 0.8 "

Launch No. 4 "b" day.

"A" Scale

Depth	Correction
0 to 25.3 ft.	- 0.2 ft.
25.4 " 27.5 "	- 0.4 "
27.6 " 30.0 "	- 0.6 "
30.1 " 33.3 "	- 0.8 "
33.4 " 38.0 "	- 1.0 "
38.1 " 48.0 "	- 1.2 "
"B" Scale	- 1.0 "

Launch No. 4 "c" day.

Depth	Correction
0 to 18.0 ft.	0.0 ft.
18.1 " 24.0 "	- 0.2 "
24.1 " 30.2 "	- 0.4 "
30.3 " 32.0 "	- 0.6 "
32.1 " 35.0 "	- 0.8 "
35.1 " 48.0 "	- 1.0 "
"B" Scale	- 2.0 "
"C" Scale	- 2.0 "
"D" Scale	- 2.2 "

Launch No. 2 "a" day.

Depth	Correction
0 to 10.1 ft.	+ 0.2 ft.
10.2 " 19.0 "	0.0 "
19.1 " 24.0 "	- 0.2 "
24.1 " 27.5 "	- 0.4 "
27.6 " 31.5 "	- 0.6 "
31.6 " 36.9 "	- 0.8 "
37.0 " ----	- 1.0 "
"B" Scale	- 1.5 "

FATHOMETER CORRECTION TABLES

Sheet No. SU - 05145 H-7030

Launch No. 4, a, b, c, d, & e days.

Depth	Corrections
0.0 to 2.0 fms	0.1 fm.
2.1 " 15.6 "	0.0 "
15.7 " 18.6 "	- 0.1 "
18.7 " 21.8 "	- 0.2 "
21.9 " 24.7 "	- 0.3 "
24.8 " 27.9 "	- 0.4 "
28.0 " 31.2 "	- 0.5 "
31.3 " 34.5 "	- 0.6 "
34.6 " 37.7 "	- 0.7 "

Launch No. 2, a, b, & c days.

0.0 to 3.5 fms.	+ 0.2 fms.
3.6 " 4.5 "	+ 0.1 "
4.6 " 6.8 "	0.0 "
6.9 " 9.0 "	- 0.1 "
9.1 " 11.3 "	- 0.2 "
11.4 " 13.7 "	- 0.3 "
13.8 " 17.0 "	- 0.4 "
17.1 " 21.3 "	- 0.5 "
21.4 " 24.7 "	- 0.6 "
24.8 " 27.6 "	- 0.7 "
27.7 " 31.0 "	- 0.8 "
31.1 " 37.5 "	- 1.0 "
37.6 " 44.0 "	- 1.2 "

H-7030

Lenard Harbor, Cold Bay

Seattle Processing Office Notes

The processing of this sheet was delayed because it was put at the foot of the priority list. The survey was made to facilitate military landing practice. As the authorities concerned were immediately furnished with the results from the boat sheets, and as their interest ceased with the end of the war, this was considered the least urgent.

On request to the Washington Office, the registered number H-7029 was cancelled so that this small piece of work now in Volumes 6 & 7 of H-7030 could be plotted as a sub-plan.

The following two discrepancies were noted:

<u>Lat. & Long.</u>	<u>Positions</u>	<u>Depth</u> <u>Feet</u>	
55°06'56.0" 162 24 01	1-2b 31-32c	131-118 109-100	<i>steep gradient</i>
55 06 58 162 23 52	68-69a * c lines	*This line 2-3 ft. deeper than $\sqrt{2}$ cross lines. <i>in depths of 135 ft.</i>	<i>Discrepancy local as other crossings are O.K.</i>

H-7030

Geographic Names

Alaska Peninsula

Cold Bay

Lenard Harbor

*L.C.W.
Hamm*

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

Division of Charts: H. W. MURRAY

Plane of reference approved in
7 volumes of sounding records for

HYDROGRAPHIC SHEET 7030

Locality - Cold Bay, Alaska Peninsula, Alaska.

Chief of Party: C. D. Meaney in 1945

Plane of reference is mean lower low water, reading

3.8 ft. on tide staff at Cold Bay

52.3 ft. below B. M. 4 (1945)

Height of mean high water above plane of reference is 6.4 feet.

Condition of records satisfactory except as noted below:

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

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7030

FIELD NO. SU-05145

Alaska, Cold Bay, Lenard Harbor
Surveyed in April - May 1945 Scale 1:5,000
Project No. Instructions
issued by U. S. Navy May 4, 1945

Soundings:

Control:

Handlead
808 Fathometer

Sextant fixes on shore
signals

Chief of Party - C. D. Meaney
Surveyed by - R. C. Rowse, W. R. Porter, H. J. Healey,
H. O. Fortin, F. Natella, R. H. Brown and
R. Mansfield
Protracted by - B. B. Jones and C. W. O'Melveny
Soundings plotted by - B. B. Jones
Verified and inked by - H. A. Curtis
Reviewed by - R. H. Carstens, August 27, 1947
Inspected by - H. W. Murray

1. Shoreline and Signals

The shoreline and signals originate with planetable surveys T-6985 and T-6986 of 1945.

2. Sounding Line Crossings

Depths at crossings are in very good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves were adequately delineated.

The bottom is smooth. The area is free of dangers except for inshore rocks awash and reefs mainly along the south shore. There are extensive mud flats at the head of the harbor.

4. Junctions with Contemporary Surveys

The present survey adequately joins T-7031 (1945) on the northwest.

5. Comparison with Prior Surveys

H-4314 (1923-24) 1:20,000
H-6702 (1941) 1:20,000

H-4314 covers the entire area of the present survey, and H-6702 covers the area west of long. 162° 24.5'.

A comparison with these prior surveys reveals no important changes in depths. Minor differences of 1 to 2 fms. in depth in the deeper areas are probably caused by differences in the methods of surveying.

The present survey develops all the essential hydrographic information shown on these prior surveys and, except for supplementary bottom characteristics and one inshore rock awash, is adequate to supersede these prior surveys within the common area.

6. Comparison with Chart 8703 (Latest print date 11/2/46)

A. Hydrography

The charted hydrography originates with the previously discussed surveys which need no further consideration.

B. Aids to Navigation

There are no charted aids to navigation within the area of the present survey. Signal BUOY is a temporary buoy probably established by the Navy.

7. Condition of Survey

The field plotting was accurate.

The sounding records and Descriptive Report are complete and comprehensive.

The field work adequately complies with the requirements of the Hydrographic Manual.

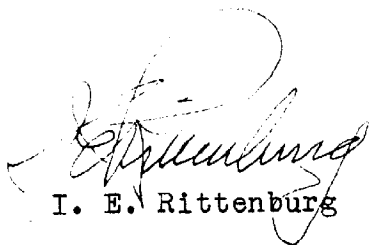
8. Compliance with the Project Instructions

The present survey adequately complies with the Project Instructions.

9. Additional Work Recommended

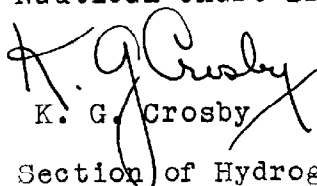
This is an excellent basic survey and no additional work is recommended.

Examined and approved:



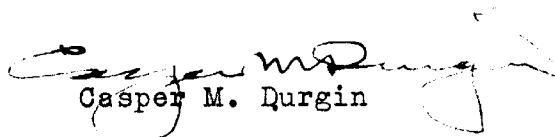
I. E. Rittenburg

Chief, Nautical Chart Branch



K. G. Crosby

Chief, Section of Hydrography



Casper M. Durgin

Chief, Division of Charts



C. K. Green

Chief, Division of Coastal Surveys

Respectfully submitted,

Edgar E. Smith

Edgar E. Smith
Cartographic Engineer
Seattle Processing Office

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. **H7030**

Records accompanying survey:

Boat sheets ².....; sounding vols. ⁷.....; wire drag vols.;
 bomb vols.; graphic recorder rolls .5...;
 special reports, etc.

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

Number of positions on sheet	.....	1166
Number of positions checked	.....	223
Number of positions revised	.....	7
Number of soundings revised (refers to depth only)	.....	15
Number of soundings erroneously spaced	.....	10
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	4 hrs
Junctions	Time	36 hrs
Verification of soundings from graphic record	Time	8

Verification by... *Henry A. Curtis* Total time 34.4 hrs Date 7/31/47

Reviewed by... *R. H. Carstens* Time 18 hr Date 8/27/47

GEOGRAPHIC NAMES
 Survey No. **H7030**

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>											1
<u>Gold Bay</u>		(location of tide staff)							USGB		2
<u>Lenard Harbor</u>											3
											4
											5
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Names underlined in original approved
 by L. Heck on 9/5/47

NAUTICAL CHARTS BRANCH

SURVEY NO. **H7030**

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
5/10/48	8860	H. MacEwen	Before After Verification and Review
5/10/48	8703	H. MacEwen	Before After Verification and Review
27 June 49 2/26	8859	Wichols	Before After Verification and Review
2/26/70	8703	H. Knoll	^{Fully} 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.