

7754



Diag. Cht. No. 9400



7754

Form 504	R
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey <u>HYDROGRAPHIC</u>	
Field No. <u>AR-4249-W</u>	Office No. <u>H-7754</u>
LOCALITY	
State <u>Alaska</u>	
General locality <u>Arctic Coast</u>	
Locality <u>Kukpowruk Pass to Vicinity of</u> <u>Kokolik Pass</u>	
<u>194 9</u>	
CHIEF OF PARTY <u>H.A. Earle</u>	
LIBRARY & ARCHIVES	
DATE <u>21 FEB. 1950</u>	

B-1870-1 (1)

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GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

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.

REGISTER No. H-7754

Field No. AR-4249-W

State ALASKA

General locality Arctic Coast, Wainwright to Point Lay, Alaska.

Locality Kukpowruk Pass to Vicinity of Kokolik Pass
~~From 6 miles southwest of Utukok Pass to Kukpowruk Pass~~

Scale 1:40,000 Date of survey July and August 1949

Instructions dated 4 February 1948 and 15 February 1949

Vessel ARCTIC SHORE PARTY

Chief of party R. A. Earle

Surveyed by David M. Whipp and Francis X. Popper

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

Fathograms scaled by C. D. Heatherington and Harold Hubbard

R. E. Westermann, Francis X. Popper, Harold Killbear,

Fathograms checked by Roland C. Heatherington, Arnold J. Lindberg.

Protracted by Francis X. Popper

Soundings penciled by Francis X. Popper and C. A. J. Pauw

Soundings in ~~2000~~ feet at ~~MLLW~~ MLLW

REMARKS:

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3.3(a), EXECUTIVE ORDER 12356.

[REDACTED]

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY NO. H-7754 (Field No. AR-4249-W)
FROM 6 MILES SOUTHWEST OF UTUKOK PASS TO KUKPOWRUK PASS
ARCTIC COAST OF ALASKA
JULY AUGUST SEPTEMBER 1949
SCALE 1:40,000

ROBERT A. EARLE - - - - CHIEF OF PARTY
KARL B. JEFFERS - - - - IN CHARGE OF FIELD WORK

A: PROJECT This sheet is part of Project CS-320, basic surveys along the Arctic Coast of Alaska and was done under authority contained in supplemental instructions dated 4 February 1948 and 15 February 1949.

B: SURVEY LIMITS AND DATES This survey covers the inshore area along the Arctic Coast from 6 miles south of Utukok Pass to the Kukpowruk Pass generally from about 14 miles northeast of Point Lay Village to 6 miles south of Point Lay Village. A junction is made at the south end of the sheet with Hydrographic Sheet Nos. H-7755 and H-7752, (Field Nos. AR-4349-W and AR-2549-W). It is contemplated that a junction will be made in 1950 with Hydrographic Sheet No. H-7753 (Field No. AR-4149-W) at the north end of the sheet. The offshore limit of hydrography was the limit of visibility of the signals. In general the offshore limit of visibility was $4\frac{1}{2}$ to 5 miles and was somewhat short of the 10 fathom curve. Two dead reckoning lines were carried offshore about 12 miles, one near the south end of the sheet and the other near the center of the sheet.

Work was commenced on this sheet on 13 July 1949, and completed on 8 September 1949.

C: VESSEL AND EQUIPMENT The sounding lines adjacent to the beach were run by launch No. 1, the sounding lines near the limit of visibility were run by launch No. 5. Both launches were modified thirty-five foot rearming boats. Modification consisted of removal of fenders, construction of canvas canopies extending full length of the well deck, construction of a plywood pilot house, raising of steering wheel and clutch lever, and standard installation of 808 fathometer and outboard fish. The turning radius of the launches was 25 meters. The sounding equipment was 808J type fathometers Nos. 106S, 104S, 109S & 73S, operated on the foot scale and read to the nearest $\frac{1}{2}$ foot. The party operated from the base camp located near the triangulation station "Camp Radio Mast Flagpole 1949".

D: TIDES AND CURRENT STATIONS The Powruk tide station, located at Point Lay Camp, was used to control this Hydrography. The tide station was at Latitude $69^{\circ} 38.35'$ Longitude $163^{\circ} 08.2'$. A portable automatic tide gage was used. There was no time and range factor.

One current station was occupied at Latitude $69^{\circ} 40.25'$ Longitude $163^{\circ} 11.8'$.

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3.3(a), EXECUTIVE ORDER 12356

E: SMOOTH SHEET The smooth sheet was constructed by personnel at the Seattle Processing Office and plotted by personnel of the Arctic Field Party.

F: CONTROL STATIONS Control is based on the second order arc of triangulation along the coast which was executed by the Arctic Field Party in 1949, Hubert A. Paton, Chief of Party. The field computations are based on the 1945 Barrow datum. Hydrographic signals were located by theodolite cuts at triangulation stations, all signal positions were computed.

G: SHORELINE AND TOPOGRAPHY No plane table work was done by this party. Field notes were recorded to assist in the identification of control on air-photos of the area. The shoreline will be drawn on air-photo compilations in another office. No photographs of the area were available to this Party. The range of the tide was too small to permit the location of the low water line by hydrographic methods.

Shoreline applied to survey from advance prints of T-9368 9149 T-9369 11349 Va Wash. Off.

H: SOUNDINGS Soundings were recorded to the nearest 0.5 foot by means of an 808 type recording fathometer.

I: CONTROL OF HYDROGRAPHY All sounding lines were controlled by sextant fixes on objects ashore. No unusual or sub-standard methods were employed.

J: ADEQUACY OF SURVEY The survey is complete and adequate. It is contemplated that the channel leading into Kokolik pass will be developed on a large scale sheet.

Accomplished Oct Wk 1950

Near signal Nut, in Lat. $69^{\circ} 54.5'$, Long. $162^{\circ} 48.5'$, there is a shoal sounding (3 feet) outside of a 7 foot sounding. The 3 foot sounding appears near position 88j launch No. 5, and the 7 foot sounding is on position 89e launch No. 1. It is believed that one or both of these lines is slightly out of position, and that the 3 foot sounding should fall inside of the 7 foot sounding. The smooth sheet plotter was unable to shift either line. It is recommended that the 7 foot sounding be omitted. *7ft. sdg not shown on Smooth sheet. Discrepancy unimportant*

K: CROSS LINES There are approximately 12 % cross lines on this sheet. Near the extreme north limits of the sheet another cross line would be desirable. It is recommended that the dead reckoning line, which is planned near the junction between this sheet and H-7753 be run so as to cross this sheet and provide an additional cross line. All crossings were good.

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3.3(a), EXECUTIVE ORDER 12356.

L: COMPARISON WITH PRIOR SURVEYS

There are no prior surveys in the area.

M: COMPARISON WITH CHART NO. 9400 This is the only chart of this area and is on too small a scale to permit detailed comparison with this survey.
Chart 9402 also covers this area.

N: DANGERS AND SHOALS The only dangers and shoals are near the two passes. It is contemplated that Kokolik Pass will be developed on a large scale sheet including the shoals near the entrance. Kukpowruk Pass has been developed on sheet No. H-7752. *developed on sheet H-7752 1950*

O: COAST PILOT INFORMATION See Special Report on Coast Pilot Notes.
Filed in Coast Pilot Sect.

P: AIDS TO NAVIGATION

There are no "Aids to Navigation" in the area.

R: GEOGRAPHIC NAMES A geographic name report is being prepared under separate cover. The hydrographer recommends that the pass at the south end of the sheet be named Kukpowruk Pass after the river which flows through the pass, and the pass near the north end of the sheet be called Kokolik Pass after the river that flows through that pass. There are no other new geographic names.
Name Rept. filed in Geo. Name Sect. 814

Z: TABULATION OF APPLICABLE DATA

(a) Attached hereto:

1. Tabulation of Statistics
2. Tide Note
3. Velocity Correction Abstract
4. List of Signals

(b) Special Reports submitted under separate cover.

1. Geographic Names
2. Coast Pilot Notes
3. Temperature & Salinity Observations
4. Landmarks for Charts.

Fath-Corr. Rept. filed with fgm's.

David M. Whipp
David M. Whipp
Lieut. USCGS

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GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356

Statistics

for

Hydrographic Survey No. H-7754 (Field No. AR 4249 W)

<u>Date</u>	<u>Day Letter</u>	<u>Vol.</u>	<u>No. Pos.</u>	<u>St. Mi. Sdgs.</u>	<u>H. L. Sdgs.</u>
<u>Launch No. 5.</u>					
7-20-49	a	5	94	44.0	1
7-23-49	b	5	66	27.0	0
7-27-49	c	5 & 6	123	63.3	0
7-28-49	d	6	46	25.0	0
7-31-49	e	6	143	64.1	1
8-1-49	f	6 & 7	116	57.3	0
8-5-49	g	7	117	57.7	0
8-9-49	h	7 & 8	99	53.5	1
9-8-49	j	8	<u>172</u>	<u>63.1</u>	<u>0</u>
		Total	976	455.0	3

Launch No. 1.

7-15-49	a	1	105	44.6	0
7-16-49	b	1	45	15.2	0
7-20-49	c	1 & 2	74	40.1	0
7-23-49	d	2	79	34.5	0
7-27-49	e	3	121	49.3	0
7-28-49	f	3 & 9	61	30.0	0
7-31-49	g	2	111	60.3	0
8-1-49	h	3	30	30.7	0
8-7-49	j	4	58	27.2	0
7-29-49	k	9	<u>38</u>	<u>3.9</u>	<u>0</u>
		Total	722	335.8	0

Total	Sq. Sta. Mi.	136.0
	Sta. Mi. Line	790.8
	Pos.	1698
	H.L. Sdg.	3

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 3.3(a), EXECUTIVE ORDER 12356

TIDE NOTE
SHEET NO. AR-4249W

Station location: Point Lay Base Camp, Lat. 69 38.3; Long. 163 08.1

Plane of Reference: Mean Lower Low Water, which is 3.2 feet on the staff at Point Lay Base Camp tide station.

All soundings were reduced to mean lower low water from recorded tides at the base camp. A portable automatic tide gage was maintained from 2 July to 16 September 1949.

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GUIDELINES AS DESCRIBED IN SECTION
2.3(a), EXECUTIVE ORDER 12356.

[REDACTED]

VELOCITY CORRECTIONS SHEET AR-4249-W. H-7754

14 July to 27 July 1949.

Fathometer # 104 S. Fathometer # S 106 Fathometer # S 109

Depth	Corr.	Depth	Corr.	Depth	Corr.
6.5	0.6	10.0	0.8	10.0	0.4
13.5	0.4	17.0	0.6	17.0	0.2
20.5	0.2	24.0	0.4	24.0	0.0
27.0	0.0	30.5	0.2	31.0	- 0.2
34.0	- 0.2	37.0	0.0	37.5	- 0.4
40.5	- 0.4	43.5	- 0.2	44.0	- 0.6
47.0	- 0.6	50.0	- 0.4	50.0	- 0.8
53.0	- 0.8	56.5	- 0.6	56.5	- 1.0
64.5	- 1.0	63.0	- 0.8	63.0	- 1.2
81.5	- 1.5	74.5	- 1.0	78.0	- 1.5
		91.5	- 1.5		

Fathometer # 73 S.

Depth	Corr.
5.0	1.0
12.0	0.8
19.0	0.6
26.0	0.4
32.5	0.2
39.0	0.0
45.5	- 0.2
52.0	- 0.4
58.0	- 0.6
65.0	- 0.8
76.5	- 1.0
93.5	- 1.5

28th July to 14 September 1949.

Fathometer # S 106.		Fathometer # 73 S.		Fathometer # S 104.	
Depth	Corr.	Depth	Corr.	Depth	Corr.
10.0	0.8	13.5	0.8	4.0	0.6
22.0	0.6	25.0	0.6	16.0	0.4
33.5	0.4	36.5	0.4	28.0	0.2
43.5	0.2	46.5	0.2	38.0	0.0
53.5	0.0	56.5	0.0	48.5	- 0.2
61.0	- 0.2	66.5	- 0.2	58.5	- 0.4
85.0	- 0.5	88.5	- 0.5	71.0	- 0.5
109.0	- 1.0			95.0	- 1.0

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LIST OF SIGNALS ON H-7754

Name used in
hydrographic survey

Origin of station

BEL
Bid
DADO
Dug
Egg
ELMER
Eva
FLOSS
FUR
Gal
INK
JAP
Key
LAD
LARD
Map
MAST
MEL
Nut
OAR
Oda
Que
Jed
SACK
Set
TUNK
Uco
Uno
WAD
Who
Yap

Pt. Lay Schoolhouse, Belfry, 1949
Theodolite cuts, 1949
DADO, 1949
Theodolite cuts, 1949
" " "
ELMER, 1949
Theodolite cuts, 1949
FLOSS, 1949
Theodolite cuts, 1949
" " "
" " "
" " "
" " "
LANCER, 1949
ROLAND, 1949
Theodolite cuts, 1949
Camp Radio Mast, (Flagpole), 1949
MELON, 1949
Theodolite cuts, 1949
" " "
" " "
" " "
" " "
ORANGE, 1949
Theodolite cuts, 1949
SEPTUNE, 1949
Theodolite cuts, 1949
" " "
" " "
" " "

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1.3(a), EXECUTIVE ORDER 12356.

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GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.

H-7754

Field Survey AR-4249

APPROVAL SHEET

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GUIDELINES AS DESCRIBED IN
3.3(a), EXECUTIVE ORDER 12356.

The smooth sheet and field records of this survey are approved as transmitted to the Washington Office. The field work and processing of the survey was inspected daily and supervised personally by the Officer-in-charge, Sub Party.

The survey is considered complete and adequate for the area covered, except for the dead-reckoning line noted in "K" of this report.

Karl B. Jeffers

Karl B. Jeffers
Commander, USC&G Survey
In-charge, Sub-Party

Approved and forwarded.

R. A. Earle

R. A. Earle
Commander, USC&G Survey
Chief, Arctic Field Party

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

31 March 1950

Division of Charts: R. H. Carstens

Plane of reference approved in
9 volumes of sounding records for

HYDROGRAPHIC SHEET 7754

Locality Vicinity of Pt. Lay, Arctic Coast, Alaska

Chief of Party: R. A. Earle in 1949

Plane of reference is mean lower low water, reading

3.2 ft. on tide staff at Point Lay Camp

3.2 ft. below B. M. 1 (1949)

Height of mean high water above plane of reference is 0.60 foot.

NOTE: Tide reducers for positions 1 F to 29 F inclusive in volume 7, have
^(blue) been corrected in red, these corrections have been verified.

Condition of records satisfactory except as noted below:

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

GEOGRAPHIC NAMES

Survey No. H-7754

Name on Survey											
	A	B	C	D	E	F	G	H	K		
<u>Alaska</u>			(for title)								1
<u>Arctic Coast</u>			"	"							2
<u>Utukok Pass</u>			"	"							3
<u>Chukchi Sea</u>									USCB		4
											5
<u>Kukpowruk Pass</u>											6
<u>Point Lay Village</u>											7
<u>Point Lay</u>											8
<u>Kasegaluk lagoon</u>											9
<u>Kokolik Pass</u>											10
											11
											12
											13
											14
											15
											16
											17
											18
											19
											20
											21
											22
											23
											24
											25
											26
											27

Names underlined in red are approved
3-29-57 L. Heck

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ~~XXXXXX~~ H-7754

Records accompanying survey:

Boat sheets ².....; sounding vols. ⁹.....; wire drag vols.;
 bomb vols.; graphic recorder rolls 17 envel.
 1 envel. containing 1 report of Fath. Corrections,
 special reports, etc. Arctic West Party, Wainwright to Point Lay, Alaska;
 1 Cahier, Form 457 "Daily ~~XXXXXXXX~~ Density & Temp." for tide gauge at Point Lay,
 Icy Cape & Wainwright, Alaska; 1 Cahier, Form 717 Temp. & Sal. Observations",
 Wainwright to Point Lay, Alaska.

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

Number of positions on sheet	1698
Number of positions checked	133
Number of positions revised	26
Number of soundings revised (refers to depth only)	175
Number of soundings erroneously spaced	0
Number of signals erroneously plotted or transferred	0
Topographic details	Time 18½ hrs <i>shoreline applied in Wash. Off.</i>
Junctions	Time ½ hr
Verification of soundings from graphic record	Time 10 hrs

Verification by *Arthur B. Martnowitz* Total time 138 hrs Date AUG 23, 1950

Reviewed by *Am Jeskud* Time 12 hrs Date OCT 26, 1950

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7754

FIELD NO. AR-4249-W

Alaska, Arctic Coast, Kukpowruk Pass to Vicinity of
Kokolik Pass
Surveyed in July - September 1949 Scale 1:40,000
Project No. CS-320

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals
Dead reckoning

Chief of Party - R. A. Earle
Surveyed by - D. M. Whipp, F. X. Popper
Protracted by - F. X. Popper
Soundings plotted by - F. X. Popper, C. A. J. Pauw
Verified and inked by - A. B. Markowitz
Reviewed by - I. M. Zeskind, 26 October 1950
Inspected by - R. H. Carstens

1. Shoreline and Signals

The shoreline originates with air-photographic surveys T-9368 and T-9369 of 1949 before review.

The source of the control is described in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

The usual depth curves are adequately delineated.

The bottom inshore from 36 ft. depths is marked by irregularities which are probably caused by the gouging of grounded ice. Offshore from these depths the bottom is generally smooth.

4. Junctions with Contemporary Surveys

The junctions with H-7752 (1949) and H-7755 (1949) on the south and H-7753 (1949) on the north will be considered in the reviews of those surveys.

5. Comparison with Prior Surveys

No prior surveys of this area have been made by this Bureau.

6. Comparison with Arctic Chart 14 (Latest print date 4/10/50.)
Arctic Chart 15 (Latest print date 4/17/50.)

A. Hydrography

The charted hydrography originates with the present survey before verification. Minor corrections to soundings amounting to 1 ft. have been made on the smooth sheet during verification and review.

B. Aids to Navigation

No aids to navigation are charted in the area of this survey.

7. Condition of Survey

- a. The field plotting was accurately done.
- b. The sounding records and Descriptive Report are complete and comprehensive.
- c. Kokolik Pass has yet to be developed as mentioned in paragraph N of the Descriptive Report.
- d. Present survey development is somewhat short of the 10-fm. curve.

*accomplished
in 1948. See
it's review
add W.H.*

*see note
pg. 6 below*

8. Compliance with the Project Instructions

The survey adequately complies with the Project Instructions, except as mentioned in paragraph 7c above.

9. Additional Field Work Recommended

This is a very good basic survey for the area covered. As mentioned in paragraph 7c above, Kokolik Pass is yet to be surveyed. As a matter of record it is noted that an off-shore dead reckoning loop was not run in the vicinity of

the junction of the present survey with H-7753 (1949).
(See paragraph K of the Descriptive Report). This loop
will probably be run during the 1950 field season.
Kokolik Pass surveyed in 1950 Add Wk. Loop run on H-7753 in 1950

Examined and approved:

H. R. Edmonston

H. R. Edmonston
Chief, Nautical Chart Branch

Robert W. Knox

R. W. Knox
Chief, Division of Charts

L. S. Hubbard

L. S. Hubbard
Chief, Section of Hydrography

W. M. Scaife

W. M. Scaife
Chief, Division of Coastal Surveys

Additional work

7754

Diag. Cht. No. 9400

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC

Field No. AK-4249-W Office No. H-7754 Ad. Wk.
1950

LOCALITY

State ALASKA

General locality Arctic Coast, Alaska

Locality Vicinity of Kokolik Pass
~~From 4 miles southwest of Utukok~~

~~Pass to Kulpowruk Pass~~

194

CHIEF OF PARTY

R.A. Earle

LIBRARY & ARCHIVES

DATE Jan. 29, 1951

B-1870-1 (1)

Additional work

7754

**DECLASSIFIED BY NOAA
PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(a), EXECUTIVE ORDER 12356.**

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.

REGISTER No. H-7754

Field No. AB-4249-W

State ALASKA

General locality Arctic Coast, Alaska

Locality From 6 miles southwest of Utukok Pass to Kukpowruk Pass

Scale 1:40,000 Date of survey August 1950

Instructions dated 4 February 1948, 15 February 1949 & 8 March 1950

Vessel ARCTIC FIELD PARTY

Chief of party R.A. EARLE

Surveyed by DAVID M. WHIPP

Soundings taken by fathometer, graphic recorder, ~~book recorder~~ graphic recorder

Fathograms scaled by HAROLD HUBBARD

Fathograms checked by DAVID M. WHIPP

Protracted by A. J. Hoffman

Soundings penciled by _____

Soundings in ~~fathoms~~ feet at ~~MLLW~~ MLLW _____

REMARKS: _____

ADDENDUM TO
DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY NO. H-7754 (FIELD NO. AR-4249-W)
FROM 6 MILES SOUTHWEST OF UTUKOK PASS TO KUKPOWRUK PASS -
ARCTIC COAST OF ALASKA
PROJECT CS-320
AUGUST 1950
Scale 1:40, 000

CHIEF OF PARTY - - - - - R. A. EARLE
IN CHARGE OF FIELD WORK- - - - - H. G. CONERLY

A: PROJECT

The additional work covered by this addendum is part of Project CS-320, basic surveys along the Arctic Coast of Alaska, and was done under authority contained in supplemental instructions dated 8 March 1950.

B: SURVEY LIMITS AND DATES

The additional work covered by this addendum comprises the entrance to Kasegaluk Lagoon about 12 miles north northeast of Point Lay village and a small basin in the lagoon. This work was originally done on a 1/10,000 boat sheet with the intention of making a separate sheet of the area, however, the lagoon shoaled so rapidly that an additional sheet was not justified. This additional work was done on -August the 22nd and 23rd, 1950.

E: SMOOTH SHEET

This additional work ^{was} will be plotted on the smooth sheet by personnel in the Washington Office.

F: CONTROL STATIONS

One additional hydrographic signal was erected. It was plotted on the boat sheet by sextant angles measured at the signal between existing triangulation stations.

J: ADEQUACY OF SURVEY

The survey is adequate for the area. There is evidence of annual changes in the entrance, and it is believed that a detailed survey would be misleading. Billy Neakok, an Eskimo familiar with this area, reports that in his lifetime the lagoon has shoaled a great deal. Whereas it once contained an easy passage for launches drawing 4 feet of water, skin boats now have difficulty in traversing it.

Y: NOTE

Paragraphs omitted from this addendum are similar to those on the original report.

Z: TABULATION OF APPLICABLE DATA

(a) Attached hereto:

1. Tabulation of statistics, 1950
2. Tide Note, 1950
3. Abstract of Velocity Corrections, 1950
4. List of additional signals

(b) Submitted under separate cover:

1. Descriptive Report to Accompany Hydrographic Survey No. H-7754 (Field No. AR-4249-W) - 1949
2. Geographic names, 1950
3. Coast Pilot Notes, 1949, 1950
4. Velocity Corrections, 1950
5. Landmarks for Charts, 1949, 1950
6. Special Tide Report, 1950



DAVID M. WHIPP
Lieutenant, USC&G Survey

LIST OF ADDITIONAL SIGNALS FOR HYDROGRAPHIC SHEET
NO. H-7754, FIELD NO. AR-4249-W

NAME USED IN SURVEY

SOURCE

DON

SEXTANT Fix 1950

This signal is to be plotted on the smooth sheet
by using the sextant angles found on Page 2, Volume 10.

STATISTICS

FOR

- - HYDROGRAPHIC SURVEY NO. H-7754 (FIELD NO. AR-4249W)

<u>DATE</u>	<u>DAY LETTER</u>	<u>VOLUME</u>	<u>NO. POS.</u>	<u>ST. MI. SDGS.</u>	<u>H. L. SDGS.</u>
8-22-50	a	10	72	14.3	0
8-23-50	b	10	34	3.0	2
1949 TOTALS			<u>1698</u> 1804	<u>790.8</u> 808.1	<u>3</u> 5

FINAL: Sq.Stat.M 136
Stat.Mi.Sdg.L. 808;1
No. of Pos. 1804
H.L. Sdgs. 5

TIDE NOTE

SHEET NO. H-7754

(FIELD NO. AR-4249--W)

STATION LOCATION:

Powruk Tide Gage, Point Lay Base Camp, at Latitude $69^{\circ} 38.3'$; Longitude $163^{\circ} 08.1'$.

PLANE OF REFERENCE:

Mean lower low water, which is 2.3 feet on the staff at the station, and 3.3 feet below B.M. No. 1.

All soundings were reduced to mean lower low water by using the portable automatic tide gage records at the base camp. The gage was maintained from 15 July to 30 August 1950.

VELOCITY CORRECTIONS

AR-4249-W

H-7754

FATHOMETER NO. 55 S.

August 22 - August 23, 1950

<u>To Depth</u>	<u>Corr.</u>
6	0.0
15	-0.2
23	-0.4
31	-0.6

APPROVAL SHEET

H-7754

It was not possible for the Chief of Party to make frequent inspections of all widely separated units engaged in hydrographic surveys, such inspections being assigned to the officer in charge of field work in each base camp.

The sheet and records have been examined and approved. The survey is considered adequate for this area.



R. A. EARLE
Commander, USC&G Survey
Chief of Party

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

~~Division of Hydrography and Topography~~

31 January 1951

Division of Charts: R. H. Carstens

Plane of reference approved in
1 volumes of sounding records for

HYDROGRAPHIC SHEET 7754 Add. Wk.

Locality Arctic Coast, Alaska

Chief of Party: R. A. Earle in 1950

Plane of reference is mean lower low water, reading

2.3 ft. on tide staff at Point Lay (Powruk)

3.3 ft. below B. M. 1 (1949)

Height of mean high water above plane of reference is 0.60 foot.

Condition of records satisfactory except as noted below:

E. C. McKay

Section

Chief, ~~Division of Tides and Currents.~~

GEOGRAPHIC NAMES

Survey No. H-7754-Ad.Wk.
1950

Name on Survey	Source of Information										
	A	B	C	D	E	F	G	H	K		
											1
											2
											3
											4
											5
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											27

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..H-7754, Ad.Wk. 1950

Records accompanying survey:

Boat sheets ..1...; sounding vols. ..1...; 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		106	.....
Number of positions checked		10	.....
Number of positions revised		2	.....
Number of soundings revised (refers to depth only)			.....
Number of soundings erroneously spaced			.....
Number of signals erroneously plotted or transferred			.....
Topographic details	Time		.....
Junctions	Time		.....
Verification of soundings from graphic record	Time	1	.....
Verification by..... <i>A. J. Hoffman</i>	Total time	4	..... Date 2/7/51
Reviewed by..... <i>Ernest Zerkow</i>	Time	2	..... Date 2-12-51

DIVISION OF CHARTS

REVIEW SECTION - NAUTICAL CHART BRANCH

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-7754Add.Wk.
1950

FIELD NO. AR-4249-W

Alaska, Arctic Coast, Vicinity of Kokolik Pass
Surveyed in August 1950
Project No. CS-320
Scale 1:40,000

Soundings:

Control:

808 Fathometer

Sextant fixes on shore signals

Chief of Party - R. A. Earle
Surveyed by - D. M. Whipp
Protracted by - A. J. Hoffman
Soundings plotted by - A. J. Hoffman
Verified and inked by - A. J. Hoffman
Reviewed by - I. M. Zeskind, 12 February 1951
Inspected by - R. H. Carstens

1. Instructions

The additional work was accomplished in compliance with Supplemental Instructions for Project CS-320, dated 8 March 1950, and was recommended in the Review of H-7754 (1949).

2. Scope and Results

The additional work consists in the development of Kokolik Pass and the running of an off-shore dead reckoning loop in the vicinity of the junction of the present survey with H-7753 (1949). This work has been adequately accomplished. The dead reckoning loop is shown on H-7753.

3. Additional Work Recommended

Survey H-7754 is now considered basic and no additional work is recommended.

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7754

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
3/50	9402	C.R.W. by <i>[signature]</i>	Before After Verification and Review almost entirely thru charts #14 & 15.
5/31/55	9457 56	Goodrich	Before After Verification and Review including add'l work in 1950
2/1/56	9402	J.P. M. Gam	Before After Verification and Review including add'l work in 1950
			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.

NAUTICAL CHARTS BRANCH

SURVEY NO. H-7754 Ad. Wk. 1950

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
2/26/51	# 1A	<i>[Signature]</i>	Before After Verification and Review
2/1/56	9402	<i>Jau.</i>	Before After Verification and Review
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			Before After Verification and Review
			Before After Verification and Review

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.

	Applied to Arctic Coast Chart #15 (confidential) before verif.	3/7/50	WE
	" " " " " #14 " " "	3/1/50	EMB
Add'l Work	" " " " " #14 (") after ver. & rev.	2/16/51	L.S.S.
	" " " " " 9402 (") " "	1 fm sdg at	Kakolik Pass. 2/6/51
			L.S.S.

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