8842

Diag. Cht. No. 8554-2.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. PF-20-3-65 Office No. H-8842

LOCALITY

State Alaska

General locality Kamishak Bay

Locality Off Douglas River

1965-66

CHIEF OF PARTY

L.F.Woodcock, G.L.Short & J.O.Phillips

LIBRARY & ARCHIVES

DATE

1-31-72

USCOMM-DC 37022-P66

FORM C&GS-537 (8-15-59)	RM C&GS-537 U.S. DEPARTMENT OF COMMERCE REGISTER NO. COAST AND GEODETIC SURVEY REGISTER NO.				
HYC	DROGRAPHIC TITLE SHEET	н-8842			
	odrographic Sheet should be accompanied by this form, spossible, when the sheet is forwarded to the Office.	PF 20-3-65			
State	laska Kamishak Bay				
Locality Kee	Douglas River				
•	Jul-Sep Date of sur	o 65, Jul-Aug: 66, 2 8 Jul 6 7 vey			
Instructions dated 29	9 Jan 1963 to 21 Apr 1967 Project No.				
VesselUS	C&GSS PATHFINDER, Launches 1, 2	2, 3, 4			
W.S. Sim	APT L.F. Woodcock, CDR G.L. Shortmans, G.E. Rarvig, L.M. Casanova, D.L. Sv				
Soundings taken by ed	ho sounder, KARLERY Raytheon DE 7	Connell, P.M. Shidrick, J.M. Wintermyre and A.C. Weymann 723 Echo Sounder			
•	by Ship's Personnel	- Jone Soundon			
Graphic record checked Positions verified Verified Soundings	R.D. Lynn Automai	ted plot by PMC			
Soundings in fathom	ns ference at XXXV MLLV				
	liminary descriptive report of 65 has been submitted previousl				
	mplete, with some of the materi				
	n given in the preliminary repo				
)———	April	lied to stell 2.23.72			
	Bl Scanned	AUG 1 1997			

USCOMM-DC 19086-P65

PROJECT

Original instructions dated January 29, 1963 (Ship BOWIE)
Supplemental instructions dated May 18, 1964 (Ship PATHFINDER)
Revised instructions dated April 2, 1965 (Ship PATHFINDER)
Amended instructions dated May 28, 1965 (Ship PATHFINDER)
Amended instructions dated September 9, 1965 (Ship PATHFINDER)

Amended instructions dated September 9, 1965 (Ship PATHFINDER) Revised instructions dated March 17, 1966 (Ship PATHFINDER)
Supplemental instructions dated April 27, 1966 (Ship PATHFINDER)
Revised instructions dated April 21, 1967 (Ship PATHFINDER)
Supplemental instructions dated May 10, 1967 (Ship PATHFINDER) Supplemental instructions dated May 12, 1967 (Ship PATHFINDER) Supplemental instructions dated May 31, 1967 (Ship PATHFINDER) Supplemental instructions dated June 6, 1967 (Ship PATHFINDER)

B. AREA SURVEYED

The area surveyed in this sheet extends north from the southern shore of Kamishak Bay at Spotted Glacier to latitude 59 13.0'. The coastline constants of tidal flats to the southwest of the survey, and of sandy beaches to the south at the edge of the glacial plane.

The survey was begun in July, 1965 and terminated for the season in September, 1965. Work continued from July to August during the 1966 season and the field work was completed on July 28, 1967 after a one day investigation of the mouth of the Douglas River.

The sheet limits are as follows:

59° 13.0' Latitude North:

The general coastline extending northwestward South:

from Spotted Glacier Longitude 153° 28.0' Longitude 153° 47.0' East:

West

This survey junctions with the contemporary surveys PF 20-2-65 (H-8841) and PF 40-2-65 (H-8843). It also junctions with prior survey FE No. 3(1946-1947, 1:200,000, reconnaissance).

C. SOUNDING VESSELS

The PATHFINDER, motor launches #1, #2, #3, and #4, were used as sounding vessels for this survey. The colors used to identify the work are as follows: PATHFINDER - blue (capital letters); ML #1 - blue; ML #2 - violet; ML #3 - green; ML #4 - brown.

D. SOUNDING EQUIPMENT

Raytheon DE 723 echo sounders were used by ship and launches for all soundings. The quality of the fathograms obtained with these units was satisfactory. The serial numbers of the echo sounders are listed below.

On July 28, 1967 an investigation was made in the mouth of \$\lambda_155^45'\$ the Douglas River west of Crow Island. A sounding pole was used for this investigation. Not smooth plotted -all minus says

VESSEL	SERIAL NO.
PATHFINDER	551
ML #1	940, 935, 145
ML #2	557, 940
ML #3	140, 145, 552
ML #4.	552, 145, 551

The echo sounder corrections (draft and velocity) were obtained by lead line comparisons for the PATHFINDER and bar checks were taken twice daily for all launches.

E. SMOOTH SHEET

The smooth sheet is to be plotted at the Pacific Marine Center with the Gerber Digital Plotter.

F. CONTROL

Shoran was used for horizontal control for approximately 90% of the hydrography. The remainder was controlled with three point visual fixes.

In 1965 Shoran stations were established on second-order traverse stations "CROW, 1964" and "SOUTH AUGUSTINE 2, 1964, RM #3". One additional station was established in 1966 on the triangulation station "SHAW NO. 4 1946-1966". For details reference is made to the 1965 SHORAN REPORT and the 1966 SHORAN REPORT.

Control stations for visual hydrography were established by signal building on existing traverse marks and on photogrammetric locations. Photo-hydro signals are plotted on Incomplete Manuscript T-12341 and T-12342(1;20,000, April 1965).

G. SHORELINE

Sources of shoreline details are the manuscripts mentioned above. These are black line manuscripts and the Dryrite ink method of transferring shoreline was used.

The low-water line was properly defined by the inshore hydrography. Major details of the shoreline were also verified in the same manner.

H. CROSSLINES

Crosslines run in the area exceeded the minimum 8% required. Based on predicted tides, crossings were consistent with the regular system of sounding lines.

I. JUNCTIONS

Junctions were established with the following prior surveys: FE-3 (1946-1947, 1:200,000 reconnaissance survey), and with the contemporary surveys PF 20-2-65 and PF 40-2-65.

H-8844(1965) H-8843(1963-68)

H-8841(1965) H-8843(1963-68)

PF 20-2-65: The southeastern limit of PF 20-3-65 junctions very well with this survey. Depth curves are continuous over both surveys. No discrepancies of more than one fathom were noted

H-8843(1963-68)

PF 40-2-65: The eastern limit of PF 20-3-65 also junctions well with this survey. No major discrepancies were found between soundings. It should be noted that junctions were compared between boat sheets, and that the only correction applied to soundings was the tide reduced from predicted tides.

FE-3: Although most of the soundings between these surveys agree reasonably well, there are a few discrepancies Considering the type of control used in survey FE No. 3, the fact that it is only a reconnaissance survey, and the possible earthquake action in this area probably account for discrepancies in the soundings.

J. COMPARISON WITH PRIOR SURVEYS

As stated above, most of the soundings in PF 20-3-65 compare closely, within one fathom, to those of FE No. 3 (1946-1947) except for a few instances. The probable reason for these discrepancies are stated in part I. The final and complete comparison is being reserved until after smooth plotting.

K. COMPARISON WITH THE CHART

The area surveyed was compared with C&GS chart 8554, Cook Inlet - Southern Part, 1:200,000, 9th ed., May 10/65. It should be noted that part of this survey covers an area that has never been surveyed before, and that the soundings in the remainder of the area, which are rather scarce, were obtained from reconnaissance surveys. Therefore, the data from PF 20-3-65 should supersede all other data.

H-8842(1966-67)

The following items should be noted:

LOCA	ATION			SOUNDING AREA	SHOAL SOUNDING
Lat.	59° 0 153° 3	06' 21.1"N 2' 41.6"W	18	fms	9. ½ fms
Lat. Long.	59° 0 153° 3	06' 44.0"N 9' 18.1"W	6	fms	9 O.A fms
Lat. Long.	59° 1 153° 3	2' 07.8"N 2' 14.2"W	r 25	fms	2.9 3.0 fms

The latter danger to navigation was reported by wire to CCGD on August 9, 1965.

L. ADEQUACY

The survey is considered complete and adequate to supersede all prior surveys.

M. AIDS TO NAVIGATION

No aids to navigation are within the survey limits.

N. STATISTICS

Vessel	Positions	Sounding Lines	Bottom Samples
PATHFINDER ML #1 ML #2 ML #3 ML #4 *Skiff	426 1601 1737 944 1629 8	127.9 nm 439.8 518.9 201.0 461.1 2.0	40 - 26 -
Totals	631,5	1750.7	66

N. STATISTICS (CONT.)

: 81.8 square miles Area of Hydrography

Tide Stations : 1965-6 Bubbler Tide Gage on Shaw I.

Bubbler Tide Gage on Nordyke I. 1967

Current Stations : None Magnetic Stations : None

Oceanographic Stations: 1965: 59° 10.1' N, 153° 31.5' W 1966: 59° 03.4' N, 153° 09.0' W 1967: None

: "CROW, 1964"; "SOUTH AUGUSTINE 2, 1964"; "SHAW NO. 4 1946-1966". Shoran Stations

*See Supplement

O. MISCELLANEOUS

A special investigation in the area of the mouth of the Douglas River was performed to determine if the river required hydrography. The result was that hydrography was not required since a line of soundings crossing the mouth showed the bottom to be above MLLW. Complete notes on the investigation may be found in the Supplement, in the back of this report.

Sags all minus and not plotted

P. RECOMMENDATIONS

Deferred to smooth plotter.

Q. REFFERENCES TO REPORTS

Shoran Report, 1965, USC&GSS PATHFINDER Shoran Report, 1966, USC&GSS PATHFINDER Fathometer Report, 1965, USC&GSS PATHFINDER Fathometer Report, 1966, USC&GSS PATHFINDER Seasons Report, 1965, USC&GSS PATHFINDER Seasons Report, 1966, USC&GSS PATHFINDER Seasons Report, 1967, USC&GSS PATHFINDER

Respectfully submitted

Hugh B. Milburn Ensign

USESSA

APPROVAL SHEET

REGISTRY NO. H-8842 (PF 20-3-65)

The field work on this sheet was inspected where conditions permitted. The records have been examined and approved.

The survey is considered complete and adequate for charting purposes and no additional field work is recommended.

J.O. Phillips Captain USESSA

Cmdg. USC&GSS PATHFINDER

TIDE NOTE

In 1965 and 1966 a pressure recording (bubbler) tide gage was installed in a small cove on the southeast side of Shaw Island at Lat. 59 00.1' N, Long. 153° 22.8' W. A fixed staff with a vitrified scale was also installed at this location. This installation provided all tidal data for reduction of soundings on PF 20-3-65 except for one day in 1967, when predicted tides were used (see supplement).

The height of MLLW above the tide staff zero was 6.83 feet in 1965, and 5.86 feet in 1966. No hourly heights were required from Washington, D.C. The time meridian used was 150° W.

PF 20-3-65 VELOCITY CORRECTIONS

22 June to 4 July 1965

Correctio	<u>n</u>	<u>To</u>	
+0.0 f 0.1 0.2		14.0 39.0 89.0	ſms

5 July to 31 July <u>1965</u>

Correction	To	
+0.0 fms 0.1 0.2	6.0 fms 21.0 51.5	
0.4	82.0	

1 August to 26 August 1965

Correction	To
+0.0 fms	6.0 fms
0.1	16.0
0.2	26.0
0.3	38.0
0.4	65.0
0-6	82.0

21 September to 1 October 1965

Correction	To
+0.0 fms	6.0 fms
0.2	22.0
0.3 0./i	30.0 J. 9. 0

16 July to 18 August <u>1966</u>

Correction	<u>To</u>
+0.0 fms 0.1 0.2 0.3 0.4	5.4 fms 13.5 22.1 32.0 41.9

PF 20-3-65 ECHO CORRECTORS

		<u></u>	Corre		
Vessel	Date	Day	0-31 fms	31-	fms
PATHFINDER	8/23/65 8/24/65	235 236	-0.1 0.1	0.0	
ML #1	8/4/65 8/5/65 9/28/65	216 217 271	+0.3 0.3 0.3	+0.2 0.2 0.2	
	7/16/66 7/18/66 7/19/66 7/20/66 7/21/66 7/27/66 7/30/66 7/31/66 8/1/66 8/2/66 8/3/66 8/10/66 8/10/66 8/10/66 8/12/66	197 199 200 201 202 208 210 211 212 213 214 221 221 222 223 224 228 229	+0.3 0.3 0.3 0.3 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4	+0.22222222242442244422 +0.0000000000000000000000000000000000	•
ML #2	7/13/65 7/21/65 8/4/65 8/5/65 8/8/65 8/26/65	194 202 216 217 220 a	+0.4 0.2 0.3 0.2 0.3 0.2	+0.4 0.2 0.2 0.2 0.2 0.2	
	7/17/66 7/18/66 7/19/66 7/20/66 7/21/66 7/26/66 7/28/66 7/29/66 7/30/66	198 199 200 201 202 207 209 210 211	+0.3 0.4 0.3 0.4 0.3 0.2 0.3 0.4 0.1	+0.2 0.4 0.2 0.4 0.2 0.2 0.2 0.4 0.4	

PF 20-3-65
ECHO CORRECTORS (CONT.)

			Corre	ctor
Vessel	Date	Day	0-31 fms	31- fms
ML #2 cont.	8/2/66 8/3/66 8/9/66 8/10/66 8/11/66 8/12/66 8/16/66	214 215 221 222 223 224 228 229	+0.3 0.3 0.4 0.3 0.4 0.1 0.3 0.3	+0.2 0.2 0.4 0.2 0.4 0.4 0.2 0.2
ML #3	7/13/65 7/21/65 8/4/65 8/5/65 8/8/65 9/24/65	194 202 216 217 220 267	+0.3 0.3 0.3 0.3 0.3 0.3	+0.2 0.2 0.2 0.2 0.2 0.2
	7/16/66 7/17/66 7/19/66 7/20/66 7/21/66 7/26/66 8/1/66 8/2/66	a b c d e f g h	+0.3 0.4 0.3 0.3 0.3 0.3 0.3	+0.2 0.2 0.1 0.2 0.2 0.2 0.2 0.2
ML #4	8/4/65 8/5/65	a b	+0.3 0.3	+0.2 0.2
	7/16/66 7/17/66 7/18/66 7/19/66 7/20/66 7/21/66 7/28/66 7/28/66 7/30/66 8/11/66 8/11/66 8/11/66 8/11/66 8/12/66 8/12/66	197 198 200 201 202 207 209 210 211 212 213 214 221 222 223 224 228 229	333333345444433234334 000000000000000000000000000	+ 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

PF 20-3-65 SEASONAL SHORAN CORRECTORS 1965

	CROW	S. AUGUSTINE
PATHFINDER	0.000 4.850 +0.015 17.400 +0.010 30.000 +0.005	0.000 2.700 +0.010 2.700 +0.005 9.500 0.000 15.850 -0.005 22.750 -0.010 29.400
ML #1	0.000 3.000 +0.035 3.000 +0.030 +0.025 9.350 +0.020 12.400 +0.015 15.700 +0.010 18.850 +0.005 22.100	0.000 5.420 +0.015 12.750 +0.010 19.850 +0.005
ML #2	0.000 +0.015 3.250 +0.010 6.250 +0.005 9.400 0.000 12.400 -0.005	0.000 +0.015 1.650 +0.010 4.400 +0.005 7.100 0.000 9.750 -0.005

٦	96	5 (c	on	t)
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	CROW	S. AUGUSTINE
ML #2(cont)	-0.005 15.600 -0.010 18.700 -0.015 21.750 -0.020 24.700	-0.005 12.650 -0.010 15.380 -0.015 18.100 -0.020 20.750 -0.025 23.600 -0.030
ML #3	0.000 2.750 +0.015 6.000 +0.010 9.300 +0.005 12.600 +0.000 15.700 -0.005 19.000 -0.010 -0.015	0.000

PF 20-3-65 SHORAN CORRECTORS 1966

Note: The Shoran corrector for any given range may be computed by use of the formula M = K(x) + C, where (M) is the actual distance, (x) is the Shoran distance, and (K) and (C) are the constants used for various circumstances. These values, used in 1966 for EDP plotting, are given below.

	S. AUGUSTINE	SHAW	CROW
POSITIONS	K C	K C	K C
ML #1			
351- 437 438- 724 725- 915 916- 948	.999349002690 .998280 +.019640 .998731 +.020952 .998731 +.020952	.998313 +.191771 .998708 +.067584 .997642 +.056174	•996859 +•051256
949-1128 1129-1602	• 770 51 1 • 60 0 7 52	.993729 +.093452 .994390 +.078365	.994839 +.061934 .996859 +.051256
ML #2			
2414-2594 2595-2870a 2870b-2912	.995933 +.046914 .999189 +.023447 .999189 +.023447	.996037 +.112331 .998378 +.075596	•997886 +•067960
2913 - 3098 3099 - 3639	2 ,,,, 2 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.999474 +.062814 .994715 +.087774	.997886 +.067960 .996386 +.071626
. <u>ML #4</u>		-	
6000-6125 6126-6312 6313-6598	.997500 +.032500 .998104 +.030881 .998711 +.017324	.998057 +.061642 .998973 +.041801 .998465 +.042615	007807 / 054071
6599-6646 6647-6835 6836-7351	.998711 +.007388	.997228 +.061799 .996853 +.052593	.997807 +.056974 .997807 +.056974 .996721 +.061478
PATHFINDER			
8288-8290 8291-8334	1.000275007503	.998400 +.058360 .999750 +.038750	.999700 +.045100

LIST OF SIGNALS

NAME	TYPE	SOURCE
BABY BEAVER BOO BOR BUD CAR COK CROW DAN GOO HAG KAY KER LEROY LUV NAD NILE PIT POP QIK RAY ROG SAN ROR SEA SHU SIN SIP TAG TOP WAL WIG YEL	TYPE Tri-Traverse Tri-Traverse Hydrographic Hydrographic Photo-Hydro Hydrographic Photo-Hydro Tri-Traverse Hydrographic Photo-Hydro Hydrographic Photo-Hydro Tri-Traverse Photo-Hydro Tri-Traverse Photo-Hydro Photo-Hydro Photo-Hydro Photo-Hydro Photo-Hydro Photo-Hydro Photo-Hydro Hydrographic Photo-Hydro Hydrographic Photo-Hydro	BABY, 1964 BEAVER, 1964 T-12342 T-12341 T-12341 T-12341 T-12341 T-12342 T-12341 T-12342 T-12341
ZAP·	Photo-Hydro	T-12342

Supplement

PF-20-3-65

OPR-429

KAMISHAK BAY, ALASKA

Inspection of Low Water Line at Mouth of Douglas River.

PURPOSE: To determine if launch hydrography was necessary up the Douglas River.

LOCATION: Mouth of the Douglas River, between the mainland, an un-named island, and Crow Island, located at the southwestern end of Kamishak Bay, Lower Cook Inlet, Alaska.

DATE OF SURVEY: Friday, 28 July 1967

DESCRIPTION: The four lines of soundings which are indicated on the accompanying sketch were run from a skiff using a hand pole for sounding. The time was noted to the nearest five minutes and the depth to the nearest tenth of a fathom. The position was approximated using a range for alignment. The horizontal positions are estimated to be accurate to thirty feet.

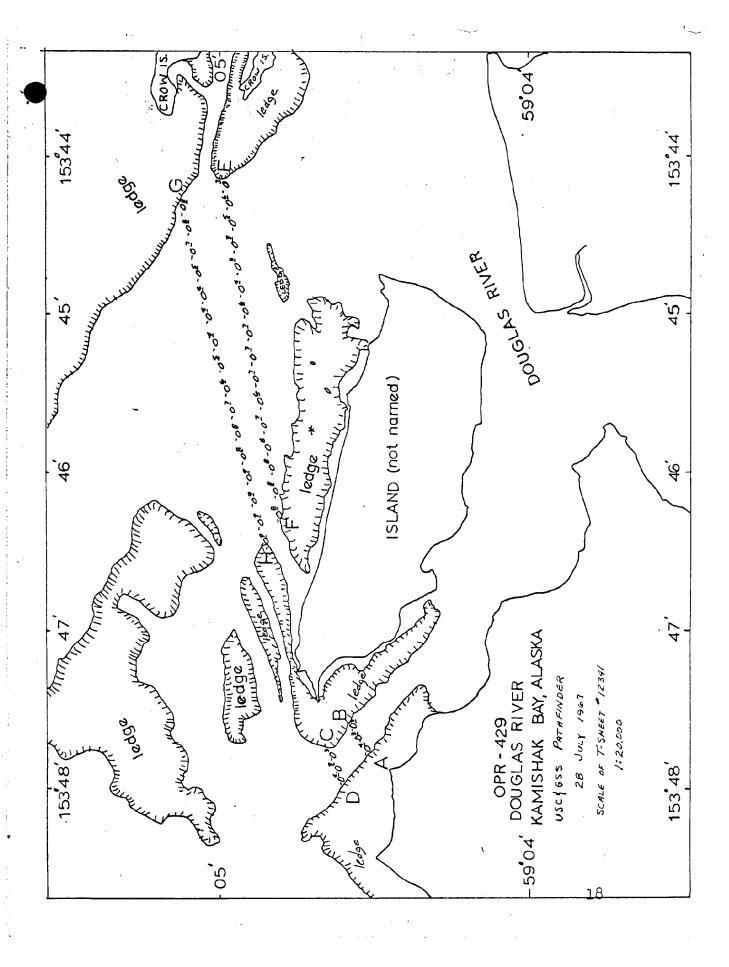
TEDES: Predicted tides based on Seldovia, Alaska were used to reduce the depths to MLLW survey datum.

RESULTS: All soundings were found to be negative, indicating that there is no navigible entrance to the Douglas River, and that further hydrography up the Douglas River is unnecessary.

William W. Spychalla
Lt. (j.g.) USESSA

OPR-429
DOUGLAS RIVER, KAMISHAK BAY, ALASKA

Line	Time	Sounding Method	Depths Encountered
A-B	1100 to 1120	Hand pole from a skiff and also by wading in parts too shallow for skiff.	Ave. depth 1.5 ft. Max. depth 2.5 ft.
C-D	1130 to 1150	Hand pole from a skiff	Ave. depth 2.0 ft. Max. depth 3.0 ft.
E-F	1330 to 1345	Hand pole from a skiff	Ave. depth 2.5 ft. Max. depth 4.0 ft.
G - H	1350 to 1410	Hand pole from a skiff	Ave. depth 3.0 ft. Max. depth 4.5 ft.



FORM 197 (3-16-55)

GEOGRAPHIC NAMES Survey No. H-8842		Char. Or	Po or	D S. Wada	Se de de la constante de la co	S. Co. Mode	O Cinco de	Mod Merch	25 Jan 13	*/
Name on Survey	/A	В		D .	E	F	G	/н	<u>/</u> K	
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Da Jouglas Aiver										4
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TIDE NOTE FOR HYDROGRAPHIC SHEET

7/25/67

Newcork Characteristic Marine Center

Plane of reference approved in for

HYDROGRAPHIC SHEET 8842

Locality: Shaw Island, Kamishak Bay, Alaska

Chief of Party: G. L. Short, 1966

Plane of reference is mean lower low water

Tide Station Used (Form C&GS-681):

Shaw Island

Height of Mean High Water above Plane of Reference is as follows:

13.3 feet

Remarks

Chief, Tides and Currents Branch

USCOMM-DC 6680-P64

FORM C&G\$-946 (REV. 11-65) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-8842

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECOR	RD DESCRIPTION		АМС	TNUC		RECORD DESCR	RIPTION	AMOUNT
SMOOTH SHEET	& PNO)	BOAT	SHEETS		4
DESCRIPTIVE R	EPORT				OVERL	AYS		4 🎉
DESCRIPTION	DEPTH RECORDS	HORIZ.		PRINT	OUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/
ENVELOPES				x	ZX.			DOCOMERTS
CAHIERS	3 🙎			3	Ž			SXXXXXX
VOLUMES	36							O ADAMANA
BOXES				2				

T-SHEET PRINTS (List)

SPECIAL REPORTS (List)

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OFFICE PROCESSING ACTIVITIES The following statistics will be submitted with the cartographer's report on the survey

DECCESSIVE ACTIVITY		АМО	UNTS	
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS
POSITIONS ON SHEET				6303
POSITIONS CHECKED		6303	/5	. 0303
POSITIONS REVISED		227	- /3 - C	
DEPTH SOUNDINGS REVISED		1894	10	
DEPTH SOUNDINGS ERRONEOUSLY SPACED			70	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
		TIME (MA	NHOURS)	1
TOPOGRAPHIC DETAILS		291	8	
JUNCTIONS		6	1/	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		229	16	
SPECIAL ADJUSTMENTS		111		
ALL OTHER WORK		306	81	
TOTALS		943	/ 0.5	
PRE-VERIFICATION BY		BEGINNING DATE	ENDING	DATE
REVIEW BY		BEGINNING DATE 8/28/68	ENDING	DATE 21/72
R.D. Lynn Fanne & Powers		BEGINNING DATE	ENDING	

USCOMM-DC 36271-P65

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-8842	FIELD NO. PF-20-3-65
Alaska, Kamishak Bay, Off Douglas River	
SURVEYED: July - September 1965; July	- August 1966
SCALE: 1:20,000	PROJECT NO.: OPR-429
SOUNDINGS: Raytheon DE-723 Depth Recorders, Sounding Pole	CONTROL: Shoran and Sextant fixes on shore signals
Chief of Party	G. L. Short
Surveyed by	W. S. Simmons
••••••	D. L. Sweetland
	W. L. Bradley
	R. T. Leroy
	R. V. O'Connell
•••••••	J. M. Wintermyre
Protracted by	Gerber Digital Plotter
Verified and inked by	R. D. Lynn F. B. Powers
Inspected by	

1. Description of the Area

This survey covers a portion of Kamishak Bay off Douglas River.

Most of the foreshore area is sandy except for the northern extreme which is foul and ledge areas. The bottom is irregular with numerous sand ridges and rocky shoals.

The predominate bottom characteristics are sand, mud, and shells.

2. Shoreline and Control

The source of the control is adequately described in Part F of the Descriptive Report.

The shoreline is from advance photogrammetric manuscripts T-12341 and T-12342 based on 1962 photography. The hydrography provided considerable change in the delineation of the reefs in the west portion of the survey.

3. Hydrography

- A. Depths at crossings are in good agreement.
- B. The usual depth curves are adequately delineated. Several brown curves have been added to emphasize important bottom features.
- C. The development of the bottom configuration and the investigation of least depths are considered adequate.

4. Condition of the Survey

The sounding records, smooth plotting, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, supplemented by the Instruction Manual - Automated Hydrographic Surveys.

Considerable rescanning of fathograms was done during verification. In addition a stylus arm correction was applied to a major portion of the soundings. It is considered that many of the changes were relatively minor and not significant to the survey of the area.

5. Junctions

Adequate junctions were effected with H-8841 (1965) on the southeast and with H-8843 (1965-68) on the north and northeast. The junction with unverified survey H-8962 (1967-8) on the west will be discussed in the review of that survey.

6. Comparison with Prior Surveys

F.E. No. 3 1947 (1:200,000)

The sparcity of soundings and the small scale of this reconnaissance survey preclude an adequate comparison with the present survey.

A comparison of prior and present depths reveals variable differences resulting from the approximate positions of soundings on the Field Examination.

The present survey is adequate to supersede the prior survey within the common area.

7. Comparison with Chart 8554, 12th Ed., May 13, 1972

A. Hydrography

The charted hydrography originates with the previously discussed prior survey which requires no further consideration, supplemented by the partial application of depths from the boat sheet and verified smooth sheet of the present survey. Many of the soundings charted from the boat sheet are about one-fathom shoaler than final smooth sheet values.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

There are no aids to navigation located within the limits of this survey.

8. Compliance with Instructions

This survey adequately complies with the project instructions.

9. Additional Field Work

This survey is considered to be a good basic survey and no additional field work is recommended.

Examined and Approved:

Marine Chart Division

Associate Director

Office of Marine Surveys and Maps

H-8842 (1965-66)

Items for Future Presurvey Reviews

The bottom is considered adequately developed on the present survey. Prior soundings were unreliable in position and provide no adequate basis for comparison.

Position Lat.	Index Long.	Bottom Change Index	Use Index	Resurvey Cycle
590	1533	2	0	50 yrs.
590	1534	3	0	50 yrs.
590	1535	3	0	50 yrs.
591	1534	3	0	50 yrs.
591	1535	3	0	50 yrs.

Any future survey in this area should obtain the least depths on the following shoals:

- 2 fm. lat. 59°04.04', long. 153°38.6'
 1.1 fm. lat. 59°07.0', long. 153°39.9'
 2 fm. lat. 59°04.15', long. 153°38.21'

Reg. No. 17-8842

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE	TIME	REQ'D_	INITIALS_	•
REMARKS:				

RECORD OF APPLICATION TO CHARTS

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS.
8554	5/3/12	E. Frey	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. Added 2 rocks awash & 2 soundings
			Post
8500	11-10-72	L.A. BACH	Fell Part Before After Verification Review Inspection Signed Via
			Drawing No. 11 No Correction, All applications to Cht.
			made thry boat sheets - Cht. scale very small (1:2, 100, 000) Full Part Board After Verification, Review Inspection Signed Via
8502	3-1-73	C.S. Forbes	
			Drawing No. Examined thru 8554-no correction
8554	2/21/74	m.D. Kanis	Full Part Before After Verification Review Inspection Signed Via
4007	2/21/14	, , , , , , , and	Drawing No.
			Part
8502	1/30/75	C.S. Forbe	Full Pare Before After Verification Review Inspection Signed Via
0000	7-7-5		Drawing No. April 2 rocks awash, revised hydro
•			thru chart 8554, added rect symbol-
			Full Researchfter Verification Review Inspection Signed Via
9500	6/20/17	Kutok	Drawing No. 15 Fully april - Chu 8554
	1	, ,	
16048	2/9/79	DI. Coments	Full Part Before After Verification Review Inspection Signed Via
· · · · · · · · · · · · · · · · · · ·	7		Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

