9083

Diag. Cht. No. 8201-3.

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. DA-10-5-69 Office No. H-9083

LOCALITY

State Alaska

General locality Eeku Strait

Locality Port Camden

1969

CHIEF OF PARTY

R. E. Moses

LIBRARY & ARCHIVES

DATE 12/15/71

USCOMM-DC 37022-P66

9083

FORM C&GS-537 (6-66)

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

HYDROGRAPHIC TITLE SHEET

REGISTER NO. H-9083

FIELD NO. DA-10-5-69

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

State Alaska

General locality Keku Strait, ~~Southeast Alaska~~

Locality Port Camden

Scale 1:10,000 Date of survey 23 Aug - 11 Sept, 1969

Instructions dated 10 March 1969 Project No. OPR-448

Vessel Ship DAVIDSON, Launch 1, Launch RA-4, 17' Whaler

Chief of party CDR Ray E. Moses

Surveyed by CST T.S. Mandich, LTJG G.F. Tornberg, LTJG G.H. Endrud

Soundings taken by echo sounder, ~~xxxxxxxxx~~ Raytheon DE-723, Nos 214, 553, 1276, & 1286

Graphic record scaled by Ship's Personnel

Graphic record checked by Ship's Officers

Boatsheet
Protracted by CST T.S. Mandich Automated plot by Gerber Plotter

Smooth Sheet Verified by: Nicholas Lestenkof

Soundings in fathoms ~~xxxx~~ at ~~xxxxx~~ MLLW

REMARKS:

Applied to chts 12-20-71

USCOMM-DC 37009-P66

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-9083 DA-10-5-69

OPR-448 Alaska

Scale 1:10,000

USC&GSS DAVIDSON

Ray E. Moses

CDR, USESSA

Commanding Officer

1969

DESCRIPTIVE REPORT

DA-10-5-69

A. PROJECT

This survey was accomplished according to Project Instructions: OPR-448, KEKU STRAIT, SOUTHEAST ALASKA, dated 10 March 1969.

B. Area SURVEYED

The survey covered the south end of Port Camden, Alaska, between the latitudes: 56° 42' 30" and 56° 37' 45".

Work was accomplished between 23 August and 11 September, 1969. The survey makes a junction with the following sheet:

DA-10-4-69	H-9082	Contemporary survey

C. SOUNDING VESSEL

The following vessels were used to obtain soundings on this survey:

VESSEL	POSITION NUMBER COLOR
Launch 1	Green
Launch RA-4	Red
17' Whaler	Blue

Positions 3458 to 3525 for Launch 1 appear on the boat sheet in red. Bottom samples were taken by both the 17' Whaler and the SHIP DAVIDSON. The DAVIDSON'S positions are shown in orange.

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used:

Launch 1	#1276
Launch RA-4	#214
17'Whaler	#553
SHIP DAVIDSON	#1286

Echo sounder corrections were determined from bar checks taken daily by the launches and sounding machine comparisons obtained by the ship. Launch and whaler fathometers were initialed at zero, requiring draft corrections for their soundings. These draft corrections are included along with velocity corrections in the Modified Velocity Correction tape. The ship's fathometer was initialed at the ship's draft. All soundings are in fathoms. Differences between actual and assumed initial values are compensated for with an Initial Corrections (TC/TI) tape.

E. SMOOTH SHEET

The smooth sheet will be constructed and plotted by the Processing Division, Pacific Marine Center, Seattle, Washington.

F. CONTROL

Visual three-point fixes were used for control in this survey. There were two types of visual signals used: triangulation and hydrographic. The triangulation signals were hand plotted on the sheet by ship's officers using field calculated geographic positions. Hydrographic signals were cut in with T-2 Theodolite and transit cuts. An abstract of signals is included in the appendix.

G. SHORELINE

Manuscripts and photographs were not available at the time of this survey. The shoreline has not been drawn on the boat sheet. The shoreline must be transferred to the boat sheet after the manuscripts are compiled. The shoal area at Latitude 56° 39.1' N and Longitude 133° 58.4' W was developed by walking the shoreline at low water.

Positions were obtained by sextant fixes and plotted on Development Overlay No.1 which is included with this report. The soundings given are reduced using the predicted tides for Port Camden, Alaska. The area is bare at high water.

H. CROSSLINES

The percentage of crosslines run was 5.9% (7.5 miles). There is good agreement at crossings.

I. JUNCTIONS

Junction was made with the following sheet:

DA-10-4-69 H-9082 Contemporary survey

There is good agreement at the junction.

J. COMPARISON WITH PRIOR SURVEYS

Comparison was made with prior survey H-2150 (1892,1:40,000). There is relatively good comparison considering the line spacing and small scale of the prior survey. There are no pre-survey review items.

K. COMPARISON WITH THE CHART

Comparison of soundings and depth curves with C&GS chart 8201, 14th edition, 30 Dec., 1968 was difficult due to the scale of the chart (1:217,828). The few representative soundings however, do compare well with the survey.

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supersede prior surveys, except for shoreline.

M. AIDS TO NAVIGATION

There are no aids to navigation on this sheet.

N. STATISTICS

	Number of Positions	Nautical Miles Sounding Lines	Bottom Samples
Launch 1	409	46.2	0
Launch RA-4	458	53.7	0
17' Whaler	476	26.4	6
SHIP DAVIDSON	15	0.0	15
TOTAL	1358		

The total area surveyed is 3.3 square nautical miles. There are eight (8) volumes with this survey.

The tide station used for this sheet is the Port Camden, Keku Strait, Alaska, Tide Gauge at triangulation station JEAN, 1968. All times are on 105° W. time meridian. The soundings on the boat sheet were reduced using predicted tides for Port Camden, Alaska.

O. LOGGING

The HUL Logger (BCD Code)/ Friden Flexowriter logging system was used with this survey. A "dual indicator" format is used which combines both the sounding tape and position tape into one "position and sounding tape". An example and explanation of this format is included in the appendix.

Separate position and sounding tapes have been made for minus soundings and zero soundings.

P. RECOMMENDATIONS

The shoreline should be inspected and traced onto the sheet after the new manuscripts are compiled. *See Verifiers Report*

GP's for all signals have been adjusted after final adjustment of the triangulation network; boat sheet positions are off by approximately one to two meters. A new hydro-signal overlay tape has been submitted; the old one should be destroyed.

Q. REFERENCES TO REPORTS

Corrections to Echo Soundings-OPR 448 DA-10-4-69, DA-10-5-69
(forwarded with this report)

Landmarks Report-OPR 448
(forwarded with this report)

Respectfully submitted,

Gordon F. Tornberg

Gordon F. Tornberg
LTJG, USESSA

APPENDIX

- ✓Tide Notes
- ✓Geographic Name List
- ✓Parameters for Digital Computing
- ✓Triangulation Stations
- ✓Boat Sheet Layout
- ✓Abstract of Corrections to Echo Sounders
- ✓Fathometer Initial Correction
- ✓List of Obstructions
- ✓List of Stations on DA-10-5-69
- List of Manuscripts - *see Review Report*
- ✓Dual Indicator Position-Sounding Tape Development Overlay No. 1 - *See Fathometer Cahier*
- ✓Abstract of Positions

TIDE NOTES

The tide station used for this survey was the Port Camden, Keku Strait, Alaska Tide Gauge located at triangulation station JEAN, 1968.

Location	Lat. 56° 39' 00" Long. 133° 59' 30"
Plane of Reference	MLLW
Time Meridian	105° W
Type of Gauge	Portable Bubbler

The tide height data were corrected for differences in time and height. MLLW was 4.8 feet on the staff.

FORM C&GS-712
(10-67)

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

January 27, 1970

~~Nautical Chart Division~~ Pacific Marine Center

Plane of reference approved ~~in~~
~~volumes of sounding records~~ for Tide tape printout

HYDROGRAPHIC SHEET 9083

Locality: Keku Strait, S.E. Alaska

~~Chief of Party~~ Year: 1969

Plane of reference is mean lower low water

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

Port Camden, Keku Strait, Alaska

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

13.6 feet

Remarks

J. M. Symons
Chief, Tides and Currents Branch

72. RETURN TO SHIP

FORM # 1 Fig. 15

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

(1) Project No. OPR-448
(2) H No. 3119
(3) Field No. SHEET L
(4) Requested by Commanding Officer
(5) Ship or Office DAVIDSON (SS-31
(6) Date Required ~~ASAP~~ May 5, 1969
(7) Visual ☒
(8) Electronic ☐ (Fill out Form #3)

(10) XKN (SP 5) Distance from CMER to East Edge (NYX = 1) or West Edge (NYX = 0). 4399.9 ~~4,400.2~~ Meters

(11) YKN (SP 241) Distance from Equator to South Edge of Sheet. 6 377 385.326 Meters

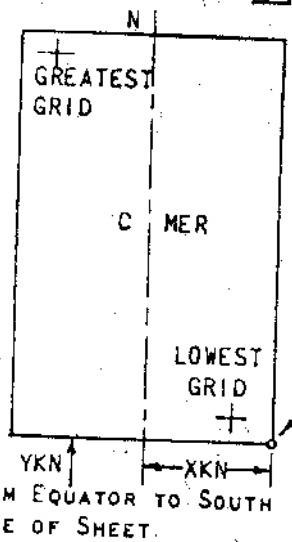
(12) Central Meridian 133 ° 59 ' 00 "

(13) Survey Scale 1: 10,000

(14) Size of Sheet (Check one) 36x54 ☒ 42x60 ☐ Other ____ ☐

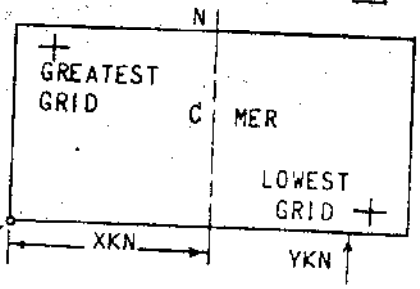
(15) NYX, Orientation of sheet (Check one)

NYX = 1 ☒



From Equator to South Edge of Sheet

NYX = 0 ☐



From Equator to South Edge of Sheet

(9) Plotter Origin (Corner of Sheet)

Latitude 56 ° 37 ' 12 "
Longitude 133 ° 54 ' 42 "

List G.P. of all stations to be plotted on this projection on the back of this form. (Deg., Min., Meters)

Grid Limits

(16) Greatest Latitude 56 ° 44 ' 30 "
(17) Lowest Latitude 56 ° 37 ' 30 "
(18) Difference ° 7 ' 00 "
(19) ° ' 30 "
(20) 14 YSN

(Projection Line Interval, Page 4 Hydro Manual)

(21) Greatest Longitude 134 ° 03 ' 30 "
(22) Lowest Longitude 133 ° 55 ' 00 "
(23) Difference ° 8 ' 30 "
(24) 0 ' 30 "
(25) 17 XSN

H 31119

Field No. ODR 448 "L"

Date 4/29/49

HYDRO II AND III PARAMETER CARDS

31119

PARAMETER CARD II

			1	2	3	4	5	6	7	8	9	10
Semi major axis of the earth	6,378,206.4	RDA	6	3	7	8	2	C	6	4	0	7
			11	12	13	14	15	16	17	18	19	20
X Constant- Distance from central meridian to origin of plotter SP 5	meters	XKN	4	3	9	9	9	0	0	0	0	4
			21	22	23	24	25	26	27	28	29	30
Y Constant - Distance from equator to origin of plotter SP 2/1	meters	YKN	6	2	7	7	3	8	5	3	0	7
			31	32	33	34	35	36	37	38	39	40
Central Meridian of Projection ✓	1 3 3 5 9 0 0 0 0	CMR	4	8	2	3	4	0	0	0	0	6
			41	42	43	44	45	46	47	48	49	50
Plotter Scale/Survey Scale ✓	*10498.6876 1:10000	SCA	1	0	4	9	8	6	8	5	0	1
												51
North/south axis of sheet - to correspond to (Y axis - 0) (X axis - 1) of plotter		NYX										1
												52
Feet/Fathom indicator	0 - feet 1 - fathom	FOF										1
								53	54	55	56	57
H Identification No.		JN						3	0	1	1	9
											58	59
		YR									6	9

FOF - 1

PARAMETER CARD III

			1	2	3	4	5	6	7	8	9	10
Lowest Lat. Intersection ✓	5 6 3 7 3 0 0 0	YST	2	0	3	8	5	0	0	0	0	6
			11	12	13	14	15	16	17	18	19	20
Lowest Long. Intersection ✓	1 3 3 5 5 0 0 0 0	XST	4	8	2	1	0	0	0	0	0	6
			21	22	23	24	25	26	27	28	29	30
Difference between Grid ✓	3 0 0 0	DXY	3	0	0	0	0	0	0	0	0	2
											31	32
Interval (Long)		XSN									1	7
											33	34
Interval (Lat)		YSN									1	4

Computed JCA ✓ MK

Punched

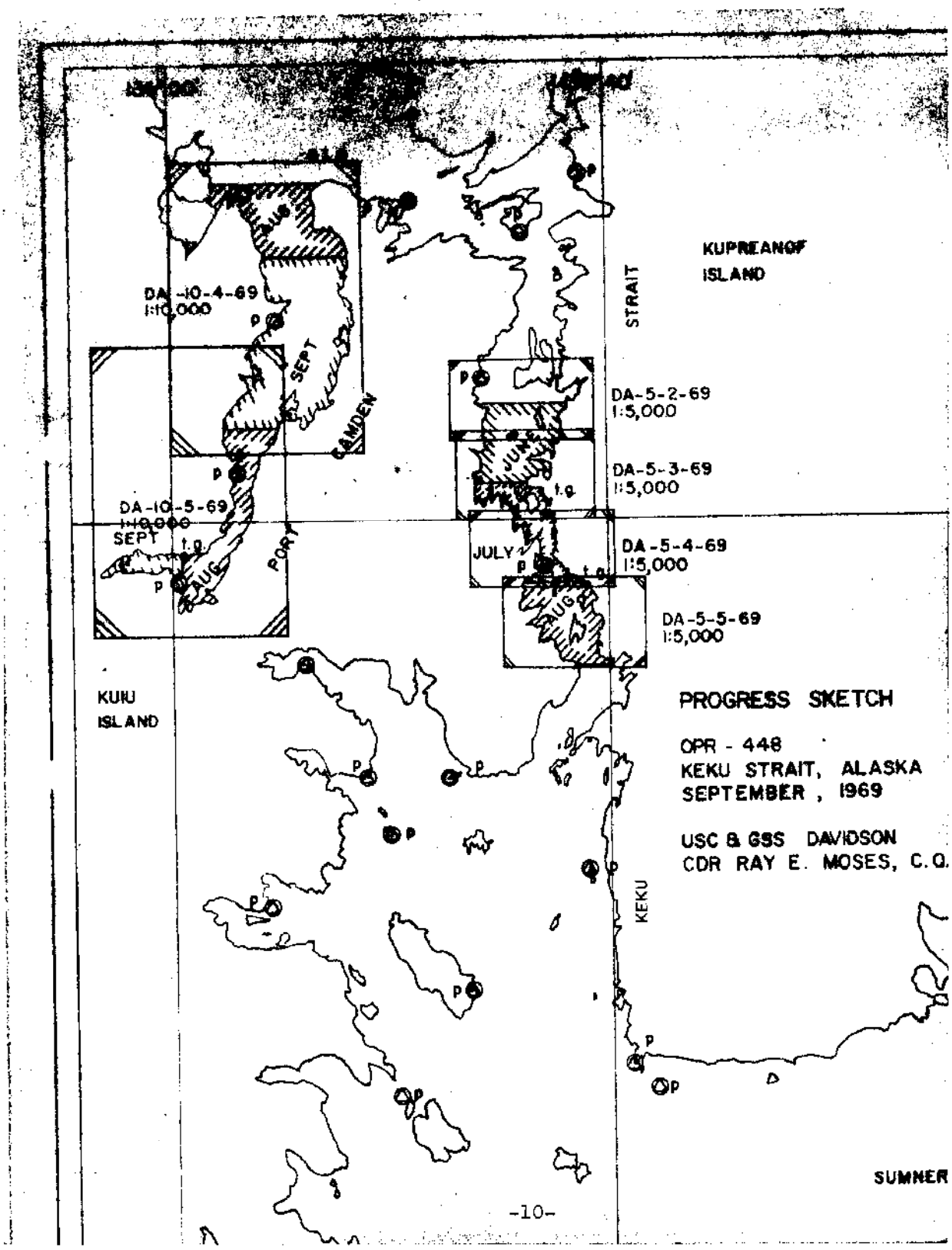
Checked

Date

TRIANGULATION STATIONS

MARY, 1969	56 41 22.70	133 56 06.72
RAT, 1969	56 40 19.01	133 56 23.34
DEE, 1968	56 39 44.52	133 56 42.56
JUD, 1968	56 38 12.66	133 59 39.74
SWAMP, 1968	56 38 49.43	134 00 28.70
PEAK, 1968	56 38 49.42	134 02 20.06
JEAN, 1968	56 38 59.84	133 59 33.58
FOUL, 1968	56 39 07.70	133 58 36.48
PEG, 1968	56 41 40.33	133 56 45.74
CRANE, 1968	56 43 14.90	133 56 21.21
DOVE, 1969	56 43 32.61	133 55 50.65

Positions are from field computation of triangulation done by Ship DAVIDSON in 1969.


KUPREANOF
ISLAND
STRAIT
DA-10-4-69
1:10,000
SEPT
CAMDEN
DA-5-2-69
1:5,000
JUNE
DA-5-3-69
1:5,000
DA-10-5-69
1:10,000
SEPT
AUG
PORT
JULY
DA-5-4-69
1:5,000
AUG
DA-5-5-69
1:5,000
KUIU
ISLAND
PROGRESS SKETCH
OPR - 448
KEKU STRAIT, ALASKA
SEPTEMBER , 1969
USC & GS DAVIDSON
CDR RAY E. MOSES, C.O.
KEKU
SUMNER

ABSTRACT OF CORRECTIONS TO ECHO SOUNDERS

In all corrections, Table 1 refers to Launch 1, Table 2 refers to Launch RA-4, and Table 3 refersto the 17' Whaler. The combined position-sounding tape does not call for specific correction tables so corrections dependent upon vessel must be entered with care. All position-sounding tapes were logged separately for each vessel used. No corrections were logged for the Ship DAVIDSON since it was used only for bottom sampling.

Modified* Velocity Corrections (Fathoms)

Table 1		Table 2		Table 3	
Depth	Corr'n	Depth	Corr'n	Depth	Corr'n
4.5	+ 0.2	3.0	+ 0.2	1.2	+ 0.2
10.0	0.3	6.2	0.3	5.5	0.3
15.2	0.4	10.6	0.4	9.5	0.4
21.5	0.5	18.8	0.5	15.8	0.5
28.0	0.6	28.0	0.6	25.0	0.6
60.0	0.7	60.0	0.7	39.5	0.7
				60.0	0.8

All corrections are positive. "Depth" refers to the depth down to which correction applies.

* Includes draft correction

FATHOMETER INITIAL CORRECTION (FATHOMS)

DAY	TIME	CORR'N
	Table 1	
238	080000	0.0
239	080000	0.0
240	080000	0.0
254	080000	0.0
	Table 2	
235	080000	-0.1
236	080000	-0.1
	111400	-0.2
	142200	0.0
238	080000	-0.2
	105400	0.0
	110530	0.2
	112400	0.0
	Table 3	
246	080000	0.0
247	080000	0.0
	100300	-0.1
	132700	0.0
248	080000	0.0

LIST OF OBSTRUCTIONS

Item	Pos.	Vol.	Page	Lat.	Long.	
Tree stump	3564	3	12	56 38.7	133 58.2	
Shoreline	3742-3754	4	4-6	56 39.1	133 58.4	
Rock	5395	6	35	56 41.8	133 57.2	Ledge in lieu of rock
Rock	5396	6	35	56 41.8	133 57.2	
Shoal	5397	6	36	56 41.8	133 57.2	

LIST OF STATIONS ON DA-10-5-69

Signal No.	Origin of Station
513	DA-10-4-69, Vol. 8, pg. 18, 20
514	Vol. 8, pg. 18, 20
515	MARY, 1969
516	Vol. 8, pg. 13, 18
517	RAT, 1969
518	DEE, 1968
519	Vol. 8, pg. 4, 11, 19, 20
520	Vol. 8, pg. 4, 11, 20
521	Vol. 8, pg. 4, 11, 13, 14, 20
522	Vol. 8, pg. 4, 8, 11,20
523	Vol. 8, pg. 4, 8, 11, 19, 20
524	Vol. 8, pg. 4, 8, 11, 14, 19
525	Vol. 8, pg. 4, 8, 19, 20
526	JUD, 1968
527	Vol. 8, pg. 4, 8, 13, 14, 15
528	SWAMP, 1968
529	Vol. 8, pg. 15, 16
530	PEAK, 1968
542	CRANE, 1968
560	DOVE, 1969
561	Vol. 8, pg. 12, 18, 21
562	Vol. 8, pg. 12, 18, 21
563	PEG, 1968
564	Vol. 8, pg. 18-20
565	Vol. 8, pg. 18-20
566	Vol. 8, pg. 13, 19, 20
567	Vol. 8, pg. 13, 19
569	FOUL, 1968
570	JEAN, 1968
571	Vol. 8, pg. 10, 15-17
572	Vol. 8, pg. 10, 15-17
573	Vol. 8, pg. 10, 15-17
574	Vol. 8, pg. 10, 15-17
575	Vol. 8, pg. 10, 15, 16
599	DA-10-4-69, Vol. 8, pg. 12

H-NO.			LATITUDE	LONGITUDE	X	Y	
09083	513	69	56423582	133550153	00360	10516	513
09083	514	69	56415276	133553637	00981	09118	514
09083	515	69	56412273	133560664	01521	08142	515
09083	516	69	56404885	133562009	01761	07042	516
09083	517	69	56401904	133562325	01817	06074	517
09083	518	69	56394455	133564250	02160	04954	518
09083	519	69	56392227	133571737	02784	04231	519
09083	520	69	56383152	133575826	03515	02583	520
09083	521	69	56380760	133583995	04260	01805	521
09083	522	69	56375716	133584053	04271	01466	522
09083	523	69	56375593	133590270	04667	01427	523
09083	524	69	56374885	133591689	04922	01197	524
09083	525	69	56380149	133592317	05034	01607	525
09083	526	69	56381267	133593960	05328	01970	526
09083	527	69	56384523	134000827	05841	03027	527
09083	528	69	56384946	134002858	06204	03165	528
09083	529	69	56384772	134013380	07371	03108	529
09083	530	69	56384946	134021995	08197	03165	530
09083	542	69	56431494	133562117	01783	11786	542
09083	560	69	56433262	133555063	01238	12360	560
09083	561	69	56425900	133565814	02443	11269	561
09083	562	69	56422813	133573415	03086	10266	562
09083	563	69	56414035	133564565	02219	08714	563
09083	564	69	56403634	133570810	02619	06636	564
09083	565	69	56401723	133571045	02661	06015	565
09083	566	69	56400466	133572871	02987	05607	566
09083	567	69	56393925	133574015	03191	04782	567
09083	569	69	56390773	133583639	04197	03758	569
09083	570	69	56385987	133593345	05218	03503	570
09083	571	69	56390427	134003222	06269	03646	571
09083	572	69	56390336	134011497	07034	03617	572
09083	573	69	56391138	134014766	07618	03877	573
09083	574	69	56390873	134020123	07861	03791	574
09083	575	69	56385625	134020117	07860	03386	575
09083	599	69	56434875	133550159	00363	12885	599

000000

DUAL INDICATOR

POSITION-SOUNDING TAPE

Time	Ind	Sndg	Pos Num	Day	Ft Fm	LA	RA	LO	CO	RO
111230	01	0015	1878	101	1	046150	012580	0201	204	206
111245	01	0020								
111300	01	0016								
111315	01	0011								
111330	01	0010	1879	101	1	045400	014140	0201	204	206

Time	Hour, min., sec.
Ind	Indicator: 00 Soundings in whole units 01 Soundings in units and tenths
Sndg	Depth in feet or fathoms
Pos Num	Position number
Day	Julian day number
Ft/Fm	Indicator: 0 Feet 1 Fathoms
LA	Left Angle
RA	Right Angle
LO	Left object
CO	Center object
RO	Right Object

ABSTRACT OF POSITIONS

Day	Launch RA-4	Launch 1	Whaler	DAVIDSON
235	0001-0185			
236	0186-0428			
238	0429-0457	3458-3526		
239		3526-3741		
240		3742-3860		
246			5001-5188	
247			5189-5384	
248			5385-5470	
			7001-7006	
253				7007-7021
254		3861-3866		

APPROVAL SHEET

OPR-448

DA-10-5-69

H-9083

Port Camden, Keku Strait

Alaska

The field work on this survey was accomplished under my supervision. Frequent inspections were made of the boat sheet and other records.

Ray E. Moses
CDR, USESSA

Commanding Officer
USC&GSS DAVIDSON

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-9083

Name on Survey	A On Chart No.	B On previous survey No.	C On U. S. quadrangle Maps	D From local information	E On local Maps	F P. O. Guide or Map	G Rand McNally Atlas	H U. S. Light List	K	
*Koku Strait										1
Kuiu Island										2
Port Camden										3
										4
										5
* title										6
										7
										8
										9
										10
										11
										12
										13
										14
										15
										16
										17
										18
										19
										20
										21
										22
										23
										24
										25
										26
										27

PREPARED BY

Frank W. Hebert

CARTOGRAPHIC TECHNICIAN

APPROVED BY

A. Joseph Wright

CHIEF GEOGRAPHER

APPROVAL SHEET

The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note; All exceptions are listed in the Verifier's Report.)

Examined and approved

William M. Martin
Acting Chief, Processing Division
Pacific Marine Center

FORM C&GS-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. 9083

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & PNO	1	BOAT SHEETS	1
DESCRIPTIVE REPORT	1	OVERLAYS	84

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
~~ENVELOPES~~ RAW			1			
CAHIERS	1					
VOLUMES	8					
~~BOXES~~ SHOG, POSN GRID			1			

T-SHEET PRINTS *(List)*

SPECIAL REPORTS *(List)*

OFFICE PROCESSING ACTIVITIES

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

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1358
POSITIONS CHECKED		1303	15	1318
POSITIONS REVISED		65	0	65
DEPTH SOUNDINGS REVISED		137	1	138
DEPTH SOUNDINGS ERRONEOUSLY SPACED		—	0	0
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		—	0	0
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		67	4	71
JUNCTIONS		7	0	7
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		88	15	103
SPECIAL ADJUSTMENTS		4	0	4
ALL OTHER WORK		10	21	31
TOTALS		176	40	216

		BEGINNING DATE	ENDING DATE
PRE-VERIFICATION BY			
VERIFICATION BY	Nicholas Lestenkof	2/16/70	12/6/71
REVIEW BY	George E. Mayeno	April 10, 1972	April 19, 1972

USCOMM-DC 36271-P65

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9083 FIELD NO. DA-10-5-69

Alaska - Keku Strait - Port Camden

SURVEYED: Aug. 23, 1969 - Sept. 11, 1969

SCALE: 10:000 PROJECT NO.: OPR-488

SOUNDINGS: DE-723 Depth Recorder CONTROL: Sextant angles on shore signals

Chief of Party	R. E. Moses
Surveyed by	G. F. Tornberg
	G. H. Endrud
	J. D. Bossler
Protracted by	Gerber Digital Plotter
Soundings Plotted by	Gerber Digital Plotter
Verified and Inked by	N. Lestenkof
Reviewed by	G. K. Myers
	Date: April 19, 1972
Inspected by	R. H. Carstens

1. Description of the Area

This is a survey of the southern portion of Port Camden, an arm whose entrance leads into the northern reaches of Keku Strait.

The bottom in much of the area is characterized by steep slopes alongshore which terminate in a gently sloping bottom. In the northern limit of the survey depths are as great as 20 to 25 fathoms; some 2 miles from the head of the arm the bottom becomes shoaler with depths decreasing to 4 to 10 fathoms. Here, there are several isolated shoals rising sharply some 25 feet above the bottom. At the head of the arm there are uncovering and shoal areas.

2. Control and Shoreline

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

The shoreline originates with advanced photogrammetric manuscripts T-12207 (1961, 1969, 1970) - Bp 82589, T-12211 (1969, 1970) - Bp 82591, and T-12212 (1961, 1969, 1970) - Bp 82592.

The rock awash at lat. 56°39'04", long. 133°58'09" on T-12212 was not mentioned by the hydrographer. The rock was found to be in error by the Norfolk Photogrammetric Office and will be removed from the topographic sheet.

3. Hydrography

A. Depths at crossings are in good agreement. The usual depth curves are adequately delineated. A number of brown curves were drawn by the reviewer to indicate least depths in areas of deeper soundings.

B. The development of bottom configuration and the investigation of least depths are generally considered adequate. However, additional development for least depth and verification by handlead of the following features would have been desirable.

Sdg. (fms.)	lat.	long.
0.7	56°38.56'	133°58.12'
4.0	56°39.07'	133°58.04'
4.8	56°39.12'	133°57.72'
4.3	56°39.45'	133°57.47'
3.7	56°39.45'	133°57.36'

4. Condition of the Survey

The plotting, sounding records, Descriptive Report and various sounding printouts are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual for Automated Surveys except that inshore where soundings adequately indicated the limits of foul areas an excessive amount of dashed line had been transferred from the photogrammetric surveys.

5. Junction

The junction on the north with H-9082 (1969) will be discussed in the review of that survey.

6. Comparison with Prior Surveys

H-2150 (1892) 1:40,000

This smaller scale prior survey with only a few sounding lines falling in the common area of the present survey is of limited value for comparative purposes between the prior and present depths. However, it is evident that the general character of the bottom has remained the same.

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

7. Comparison with Chart

Chart 8201 (Latest Print Date 1-1-72)

A. Hydrography

The charted hydrography originates with the prior discussed survey which requires no further consideration supplemented by depths from the boat sheet of the present survey (Bp-77723).

The present survey is adequate to supersede the charted information in the common area.

B. Aids to Navigation

There are no aids to navigation on the present survey.

8. Compliance with Project Instructions

This survey adequately complies with the project instructions except as noted in item 3.

9. Additional Field Work

This is a very good basic survey and no additional field work is recommended.

Examined and Approved:

Chief
Marine Chart Division

Associate Director
Office of Marine Surveys and Maps

H-9083

Items for Future Presurvey Review

This is a survey of the southern part of Port Camden, an arm which extends from the northern reaches of Keku Strait. A comparison between the only prior survey H-2150 (1892) within the common area of the present survey reveals no noteworthy changes in the area.

Position Index	Bottom change Index	Use Change Index	Resurvey Cycle
lat 564, long 1340	2	1	50 yr.
lat 563, long 1340	2	1	50 yr.
lat 563, long 1341	2	1	50 yr.

Reg. No. 9083

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.

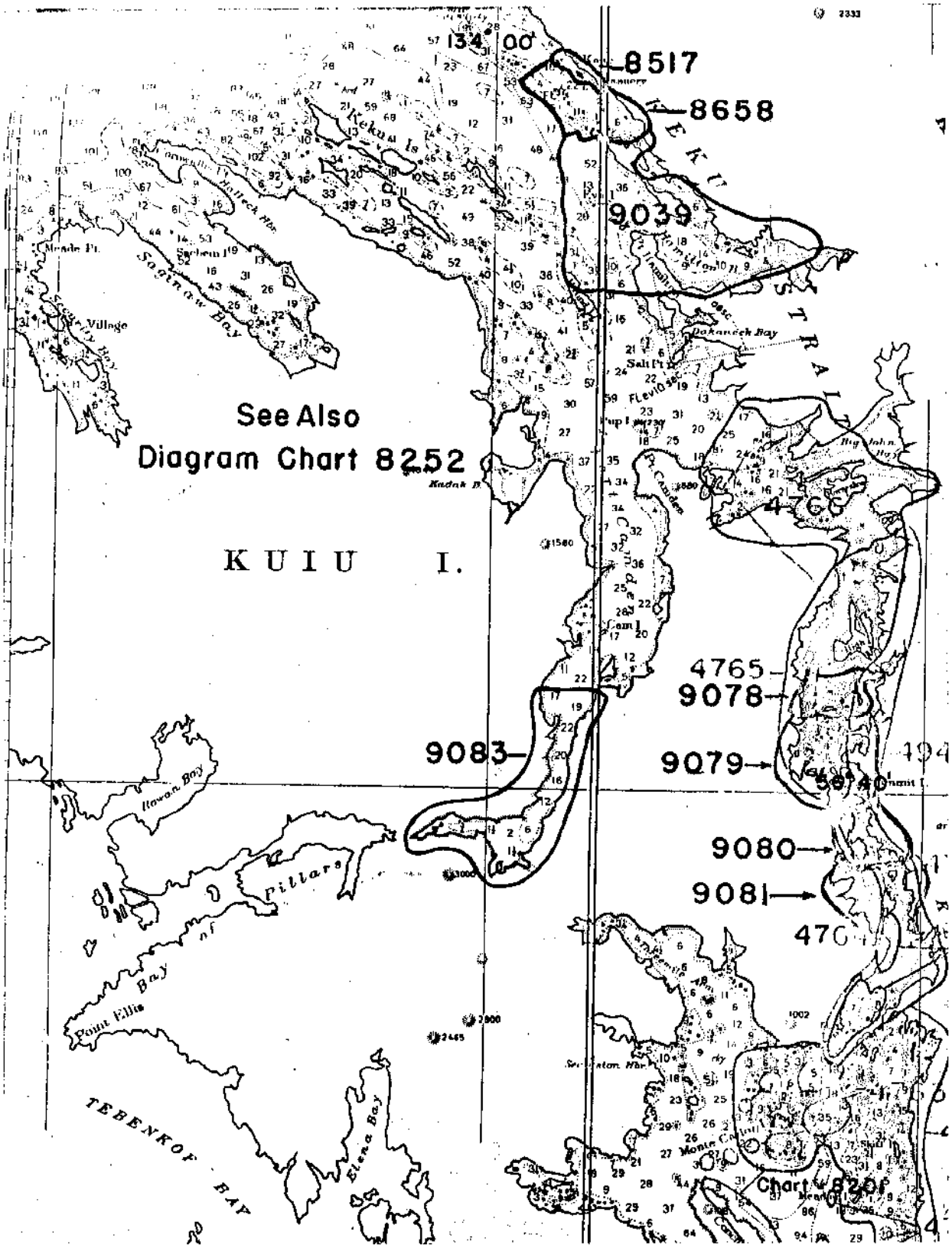
When the cards have been updated to reflect the final results of the survey, the following shall be completed:

CARDS CORRECTED

DATE_____ TIME REQ'D_____ INITIALS_____

REMARKS:

Insert in DR


134° 00'
8517
8658
9039
STRAIT
Kekuan Is.
Meade Pt.
Saginaw Bay
Village
Bakewell Bay
Salt Pt.
See Also
Diagram Chart 8252
KUIU I.
4765
9078
9083
9079
9080
9081
Howard Bay
Pillars
Bay of
Point Ellis
Elena Bay
TEBENKOF BAY
Chart 8200

(3-25-63) NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9083

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
8201	8-26-72	James Graham	~~Full~~ Part ~~Before~~ After Verification Review Inspection Signed Via
			Drawing No. 13 Appl misc corrections only after final inspection
8252	10/31/72	E. Frey	Full ~~Part~~ ~~Before~~ After Verification, Review Inspection Signed Via
			Drawing No. Chart is cleared of hydro in this area, Consider fully app'd
8175	6-27-73	J. STORT	~~Full Part Before After Verification Review Inspection Signed Via~~
			~~Drawing No. 1~~
8175	1/3/74	R. DAVIS	Full ~~Part Before~~ After Verification, Review, Inspection Signed Via
			Drawing No. 1
8252	11/22/74	M.D. KAMIS	Full ~~Part Before~~ After Verification Review Inspection Signed Via
			Drawing No. Chart is clear of Hydro in this area INSPECTED
8201	10/17/75	NAILOR	~~Full~~ Part ~~Before~~ After ~~Verification Review Inspection~~ Signed Via
			Drawing No. 25
			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.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975. USCOMM-DC 8558-P63