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NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

# **DESCRIPTIVE REPORT**

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIC
Field No. FA-10-4-70
Office NoH-9126
LOCALITY
StateALASKA
General Locality PERIL STRAIT
Locality RODMAN BAY
1970
CHIEF OF PARTY  CAPT. JOHN B. WATKINS, JR.
LIBRARY & ARCHIVES
DATE5/23/72

**☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098** 

RM C&GS-537	U.S. DEPARTMENT OF COMMERCE ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION COAST AND GEODETIC SURVEY	REGISTER NO.
	HYDROGRAPHIC TITLE SHEET	н-9126
	e Hydrographic Sheet should be accompanied by this form, ly as possible, when the sheet is forwarded to the Office.	FIELD NO. FA-10-4-70
State		
General locality_	Southeast Alaska Peril St.	rait
Locality	Peril Strait , Baconof John	L. Rodman Bay
Scale	•	vey <u>5 May - 21 May 1970</u>
Instructions dated	2 March 1970 Project No.	OPR-488
	USC&GSS FAIRWEATHER Launches F	
Chief of party	John B. Watkins, Jr., CAPTAIN,	USESSA
	LTJG J. C. Bishop	
• •	y echo sounder, hand lead, DE-723, Ser.	Nos. 559, 533, 529, 542
Graphic record sca	TATOUR AMURD	
Graphic record che		
Positions ver	ified by	Carlos of the
Processed by	Nicholas Lestenkof Automa	
Soundings pencile	by Nicholas Lestenkol	
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REMARKS:	·····	
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		lied Standards  Chart 82.83
	·	liet chart

Edan for NW1 EF 6/7/12

# Descriptive Report

to Accompany

Hydrographic Sheet H-9126 (FA-10-4-70)

Peril Strait, Alaska

Scale 1:10,000

USC&GSS FAIRWEATHER (MSS 20)

CAPT. John B. Watkins, Jr. Comdg.

# A. PROJECT

The survey was accomplished under OPR-488 project instructions dated 2 March 1970, change number one dated 17 March 1970, and in compliance with the Pacific Marine Center OPORDER.

# B. AREA SURVEYED

The area surveyed includes the mouth and main portion of Rodman Bay. It is bounded on the northwest and south by Baranof Island, on the northeast by Peril Strait, and extends west to Longitude 135° 20.0'W. Junction on the west is with FA-10-3-70 and on the northeast with FA-20-2-70. The only prior survey is No. 2238, scale 1:40,000, 1895.

The control was established from 24 April to 27 April 1970, with hydrography from 5 May to 14 May, and on 21 May, 1970.

#### C. SOUNDING VESSELS

Hydrography was done with three FAIRWEATHER launches. The following are the color codes and position numbers applicable to each launch:

Launch	FA-3	Green	Positions	2001-2238
Launch	FA-5	Red	Positions	6001-6753
Launch	FA-6	Brown	Positions	8001-8033

### D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers, serial numbers 559, 533, and 542, were used throughout the survey, in depths extending to 85 fathoms. Echo-sounding velocity corrections were determined from serial salinity and temperature measurements, and supplemented with barcheck results and initial corrections. An abstract of cumulative corrections is included.

Least depths of some shoals were verified using a lead line.

# E. SMOOTH SHEET

The signal overlay was plotted by the Gerber Digital Plotter and verified by ship personnel. The position and sounding data were logged by ship personnel, with the final smooth sheet to be plotted electronically, and verified, by personnel at Pacific Marine Center.

# F. CONTROL

Visual control was used throughout the survey with signals on triangulation stations, photo-identified points (Incomplete Manuscript T-13325) and two on sextant-located points.

# G. SHORELINE

Shoreline was transferred directly to the boatsheet from Incomplete Manuscript T-13325. Shoreline details were verified in the field and using field matte prints. Minor discrepancies included rock ledges initially indicated as separate rocks, and the designation as "islands" of two small areas which are connected to the mainland at mean high water. Delineation of the low-water line was generally not feasible due to the steep slope of the shore.

#### H. CROSSLINES

Crosslines, comprising approximately ten percent of the regular system of sounding lines, were in good agreement at intersections throughout the sheet.

#### I. JUNCTIONS

Junctions with contemporary surveys H-9125 (FA-10-3-70) and H-9122 (FA-20-2-70) were complete and adequate and in good agreement.

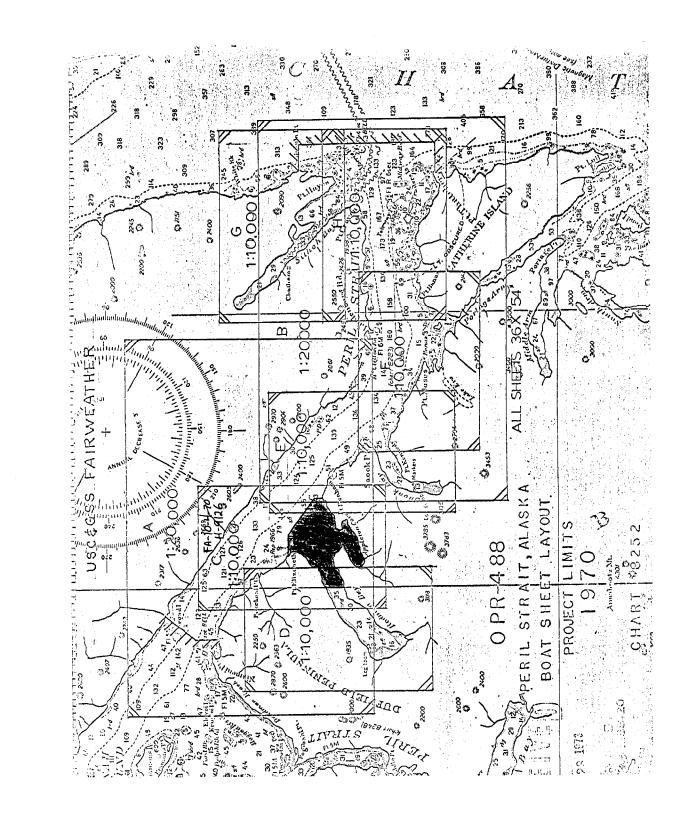
#### J. COMPARISON WITH PRIOR SURVEYS and Boot Sheet

Comparison is made with prior survey Reg. No. 2238, 1895, scale 1:40,000, and with the applicable Pre-Survey Review items.

Depths of 5 - 6 fathoms extend approximately 0.1 mile further east in Appleton Cove than is indicated on the prior survey. Several shoal areas produced soundings indicating shallower least depths than had been previously indicated:

	Latitude Longitude	Prior Survey Soundings (fms)	Pre- Survey Review ∮fms)	
	57° 28.8' 135° 18.9'		4	4- & 2- in same area.  Should be retained on shart.
	<del>57° 29.3</del> ' 135° 17.1'		-14-	45 & 47. Should be charted as 4 fm shoal.
	57° 29.1' 135° 16.9'	6		2. Final SS sounding 3 Futhoms
\	57° 29.2' 135° 17.25	4-54	N. A.	22 Trad 55 sounding 21 Fmo
•	57° 29.3' 135° 17.1'	_	14	15 and 17. Chart as 4 fm shoal.
	57° 30.0' 135° 17.0'	5-6	6	1½. Chart as 1 fm shoal.
	57° 30.05 135° 16.81	81/2	8	8. Chart as 6 fm shoal.
	57° 29.7¢ 135° 16.6'	8	8	4. Chart as 4 fm shoal.
	57° 30.4' 135° 16.0'	25	N. A.	11 - bost depth in area on present survey
	57° 30.4' 135° 15.5'	18/2	19	12. Chart as 12 fms.  Note above item.
	57° 29.7' 135° 14.4'	1 44	1	17. Retain on chart as 1 fm shoal. (See review)
	57° 29.8' 135° 14.3'	1/4	3	36. Retain on chart as 3 fm shoal.

Developments were run to delineate and determine least depths on "Item 2" of the pre-survey review. The shoal area extends from near Lat. 57° 29.6', Long. 135° 16.3' to near Lat. 57° 29.9', Long. 135° 15.8'; previous survey showed least depths of 8 fms. Three points along the shoal lie 4 - 5 fms deep with the least depth found 35 fms, near the southern end. of lat. 57° 29.51 long 135° 14.23' 3 2



# K. COMPARISON WITH CHART

Comparison is made with Chart Number 8283, scale 1:40,000, 5th edition, May 12, 1969, and the character of the bottom is generally the same as delineated on the chart. Soundings on some shoal areas showed them to have shoaler least depths than previously charted.

These shoals found to be shallower, could, in some cases, constitute newly found hazards to navigation. Refer to the tabulation in the preceding section.

# L. ADEQUACY OF SURVEY

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

# M. AIDS TO NAVIGATION

The only aid to navigation in the area of the survey is a black can buoy over a three-fathom shoal approximately 250 yards north-northeast of Rodman Rock.

# N. STATISTICS

	<u>FA-3</u>	<u>FA-5</u>	<u>FA-6</u>
Positions Sounding line (n.m.) Bottom samples	238	753	33
	39•5	117.0	2.0
	00	06	06

Total area surveyed:
Leadline soundings:
Oceanographic stations:
Magnetic stations:

5.0 square nautical miles
Three
None
One (GIN 2, 1970)

#### O. MISCELLANEOUS

Submarine topography in the area is submerged mountain landscape. The geomorphology is primarily glacial in origin, and some interesting features may be identified from the bottom contours. The narrow portion of the bay on the southwest portion of the sheet shows a slightly asymmetrical, "typical" U-shaped glacial valley profile, terminating in a basin where it enters the main portion of the bay. The basin opens through a very narrow gorge into the

deeper waters of the main channel of Peril Strait. It may be of interest to consider the circumstances which caused the Rodman Bay glacier to apparently terminate rather than joining the main glacier which must have occupied the Peril Strait channel. Or, perhaps the rock in the vicinity of the "gorge" was particularly durable and was overridden by the glacier. The comments offered here are not intended as considered explanation of the geological history of Rodman Bay, but instead to call attention to what might be a source of valuable information to geologists — the data showing the submarine geomorphology in all of the Peril Strait region.

#### P. RECOMMENDATIONS

None.

# Q. REFERENCE TO REPORTS

- Season's Report, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- Magnetics Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 3. Field Edit Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 4. Fathometer Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 5. Coast Pilot Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 6. Triangulation Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (Forwarded May, 1970).

Respectfully submitted,

James C. Bishop

LTJG, USESSA

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

VELOCITY CORRECTIONS Peril Strait - 1970

table not used for (119,26) Corrections to be applied to the following sheet numbers:

FA-10-1-70 FA-10-2-70 FA-10-3-70 FA-10-4-70 FA-10-5-70 FA-10-6-70		this pa
FA-20-1-70 FA-20-2-70		ייץ

Applicable Depths (fms)	Corrections (fms)	•
0 - 65 65 - 100 100 - 120 120 - 140 140 - —	0.0 +0.1 +0.2 +0.4 +0.5	

# MSS 20

# CAPT. John B. Watkins, Jr. Commanding

# ECHO CORRECTIONS Peril Strait - 1970

Launch FA-3 Sheet Number	Date	Correction (fms)
FA-10-1-70	4-15 4-16 4-22	+0.2 +0.2 No bar check
FA-10-2-70	5-19 5-25 5-26	+0.2 No bar check +0.2
FA-10-4-70	5-11 5-12	+0.0 +0.4
FA-10-6-70	5-24	+0.2
FA-20-1-70	5-20 5-21 5-22 5-23	+0.2 +0.2 +0.3 +0.3
FA-20-2-70	5-07 5-08 5-21 5-22	No bar check +0.2 +0.2 +0.2

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS Peril Strait - 1970

	Launch FA-5 Sheet Number	Date	Correction (fms)
	FA-10-2-70	4-15 4-16 4-17 4-22 4-25 4-26 4-27 4-29 4-30 5-26	+0.3 +0.2 +0.4 No bar check +0.2 +0.2 +0.2 +0.2 0.0 +0.2
•	FA-10-4-70	5-06 5-07 5-08 5-09 5-10 5-13 5-14	No bar check +0.2 +0.2 +0.3 +0.4 +0.2 +0.2
	FA-10-5-70	5-21	No bar check
	FA-10-6-7C	5-24	No bar check

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS Peril Strait - 1970

Launch FA-6 Sheet Number	Date	Correction (fms)
FA-10-2-70	4-28 5-20 5-22 5-23 5-24	+0.5 +0.1 +0.2 +0.2 No bar check
FA-10-4-70	5-21	+0.3
FA-10-5-70	5-13 5-14	+0.3 No bar check
FA-10-6-70	5-25 5-26	No bar check +0.2
FA-20-1-70	4-26 4-29 4-30 5-19	+0.2 +0.4 No bar check +0.3
FA-20-2-70	5-06 5-09 5-10 5-11 5-12	No bar check No bar check +0.3 No bar check +0.2

INITIAL CHECK CORRECTIONS Peril Strait - 1970

Sheet Number	Positions	Corrections (fms)
	6495-6496 6496-6500 6522-6524 6554-6555 6560-6564 6612-6613 6683-6685 6752-6794	-0.2 -0.1 +0.3 -0.1 -0.1 -0.1
	8038-8052 8081-8088 8129-8158 8180-8189 8222-8226 8500-8522 8522-8533	-0.1 -0.1 -0.1 -0.1 -0.1 -0.2
FA-10-4-70	2068-2069 2073-2075 2122-2123 2199-2204 2232-2234	-0.1 +0.1 +0.1 -0.1 +0.1
	6142-6170 6187-6223 6225-6230 6348-6379 6393-6409	-0.1 -0.1 +0.1 -0.1
	6409-6410 6411-6415 6420-6425 6441-6486 6583-6584	-0.2 -0.1 -0.1 -0.1
	6584-6587 6594-6603 6604-6606 6607-6615 6616-6618 6625-6645	-0.2 -0.1 -0.1 -0.2 -0.1 -0.2
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# LIST OF STATIONS ON H-9126 (FA-10-4-70)

Name used in Hydrographic Survey	Latitude	Longitude	Origin of Station
256	57 28 2867	135 16 2106	T-13325
257	57 28 2085	135 15 4404	エーエノフをフ Ħ
258	57 28 3443	135 15 2532	11
259	57 28 3527	135 15 5262	11
420	57 29 1865	135 13 4316	77
421	57 27 4845	135 17 3653	ŧĭ
422	57 28 0495	135 17 1056	Hydrographic
272	57 29 0142	135 20 5281	T-13325
273	57 28 2767	135 20 4908	Hydrographic
248	57 29 0000	135 17 4843	T-13325
	57 28 5751	135 17 2725	1-1))2)
249 250	57 28 5679	135 17 2173	11
251	57 28 5049	135 17 2616	71
252	57 28 5036	135 16 3169	<b>!</b>
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253 251	57 28 3944	135 16 1974	 17
254	57 28 3468	135 16 4356	11
255	57 28 2153	135 17 3396	17
240	57 29 3249	135 18 2773	11
241	57 29 2589	135 18 5865	11
242	57 29 1603	135 19 5702	11
243	57 28 3514	135 19 5526	
244	57 28 5515	135 18 3601	11 11
245	57 29 0362	135 17 5203	
246	57 29 0459	135 17 3829	11
247	57 29 0217	135 17 3859	11
101	57 31 5081	135 12 5907	CROW 1966
105	57 30 3663	135 17 2150	GIN-2, 1970
106	57 32 1839	135 19 1605	CHOP-2, 1970

# SIGNAL PLOTTER CARDS

H-NO	LATITUDE LONGITUDE X Y X
09126 256	70 57282867 135162106 04115 02296
09126 257	70 57282085 135154404 03467 02042
09126 258	70 57283443 135152532 03140 02482
09126 259	70 57283527 135155262 03618 02510
09126 420	70 57291865 135134316 01354 03920
09126 421	70 57274845 135173653 05436 00990
09126 422	70 57280495 135171056 04981 01525
09126 272	70 57290142 135205281 08869 03361
09126 273	70 57282767 135204908 08805 02265
09126 248	70 57290000 135174843 05644 03313
09126 249	70 57285751 135172725 05273 03232
09126 250	70 57285679 135172173 05177 03209
09126 251	70 57285049 135172616 05254 03004
09126 252	70 57285036 135163169 04301 03000
09126 253	70 57283944 135161974 04092 02645
09126 254	70 57283468 135164356 04509 02491
09126 255	70 57282153 135173396 05391 02063
09126 240	70 57293249 135182773 06331 04368
09126 241	70 57292589 135185865 06872 04155
09126 242	70 57291603 135195702 07893 03835
09126 243	70 57283514 135195526 07863 02506
09126 244	70 57285515 135183601 06476 03156
09126 245	70 57290362 135175203 05707 03431
09126 246	70 57290459 135173829 05467 03463
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FORM # 1 Fig. 15	
PARAMETERS FOR DIGITAL COMPUTING	
POLYCONIC PROJECTION	
(1) PROJECT No. 488 (A) REQUESTED B	MATRIDEATHER
(2) H No. 9/26 20 6 6 11 P OR OFF	ICE FAIRWEATHER
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(10) XKN (SP 5) DISTANCE FROM CMER TO EAST EDGE (NYX =	
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(11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE	
BL 44	6.370.372.8 METERS
(12) CENTRAL MERIDIAN	135 0 17 1 00 11
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# TRANSMITTAL SHEET

H-9126

FA-10-4-70

The field work and examination of records was accomplished under the supervision of this command. The boatsheet was inspected daily for completeness and no additional work is considered necessary.

John B. Watkins, Jr. CAPTAIN, USESSA Commanding Officer

Ship FAIRWEATHER

# 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,

liam M. Martin

Supervisory Carto. Tech.

Approved and Forwarded,

Walter L. Bradly, CDR, NOAA Chief, Processing Division Pacific Marine Center

# TIDE NOTE FOR OPR-488, PERIL STRAIT, ALASKA, 1970

Three tide gages were installed and operated during the survey. These were at Chatham, Nismeni Point, and on the north shore of Peril Strait near False Lindenberg Head. Hourly heights were scaled and data-logged by ship's personnel and forwarded to PMC for processing. Marigrams were forwarded to Chief, Tides Section (C3312), Rockville for determination of the datum, time and height relationships, and the recommended zoning. This information is to be furnished the PMC Processing Division by Chief, Tides Section.



U.S. DEPARTMENT OF COMMERCE Environmental Science Services Administration COAST AND GEODETIC SURVEY Rockville, Md. 20852

Date: August 26, 1970

Reply to C331W-229-MCFOE

Subject: Tidal Data, Peril Strait, Alaska

Chief, Processing Division Pacific Marine Center

There are listed below the tidal data requested in your memorandum of July 7, 1970, File No. CFS3.

Location	MLLW on Marigram	Mn. Range	H.W. Interval	L.W. Interval
Chatham, Sitkoh Bay Lindenberg Head,	6.5 Ft.	12.0 Ft	9.72	3.52
Peril Strait Nismeni Point.	6.0 Ft.	12.3 Ft	9.75	4.01
Peril Strait	5.6 Ft.	12.5 Ft	9.70	3.54

Listed below are the areas to be controlled by each tide gage.

Sitkoh Bay, use the Chatham tide gage.
Peril Strait, between Pt. Thatcher or Pt. Craven and
Appleton Cove, use the Lindenberg Head tide gage.
Peril Strait, between Appleton Cove and Nismeni Point,
use Nismeni Point tide gage.

L. C. Wharton
Tides & Currents Branch
Oceanography Division

H-9121
H-9124
H-9127
H-9127
H-9128

H-9128

Peril Strait Gage (Lindenberg Head)

Peril Strait Gage inoperative on April 30, May 6,748
Use Nismeni Point Gage

H-9125
H-9125

H-9126

H-9126

# TIDE NOTE FOR HYDROGRAPHIC SHEET

# жижники Pacific Marine Center

Plane of reference approved ix whimesex x nonline x nonl

HYDROGRAPHIC SHEET 9122; 9125; 9126 0K)

Locality: Peril Strait, Alaska

Rhinkothern: 1970

Plane of reference is Mean lower low water

Tide Station Used (Form C&GS-681): Nesmeni Cove, Alaska

Height of Mean High Water above Plane of Reference is as follows: 14.0 feet

Tide reducers have been revised in red and verified as follows:

DAY	TIMES	DAY	TIMES
117 118 119 " Remarks 120	1338-2317 0006-2335 0016 0222 0341-0716 0932-2350 0009-0230 0500-0833 1041-1517 1725-2131	121 " 124 126 128 144	0012-0949 1146-1609 1753-2050 0154 1041-1050 0612-0619 0134-0227 - 0122-0209

Blet a Cummeng

FORM 197 (3-16-55)

On periods street Ford McHally Auto 8 O Cine of Wash J. S. Light Light **GEOGRAPHIC NAMES** Tron to reside Or local Magas Survey No. H-9126 Name on Survey CENTER K G 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17\_ 18\_\_\_ 19 20 PREPARED BY 21 GARROGRAPHIC TECHNICIAN 23 26 27

FORM C&GS-946 (REV. 11-65) (PRESC. BY HYDROG RAPHIC 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. $\underline{H-9126}$

RECORDS ACCOMPANYING SURVEY:	To be completed	when everer is easi.	
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RECORD DESCRIPTION			AMC	AMOUNT		RECORD DESCR	RIPTION	AMOUNT
DESCRIPTIVE REPORT		*194 91 4			BOAT SHEETS		r e e recentado de la compansión de la c	and the same
			1		OVERLAYS			<b>#</b> 3
DESCRIPTION	DEPTH RECORDS	HORIZ.	CONT. ORDS	PRINT	OUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS SOURCE DOCUMENTS
ENVELOPES					<b>f</b>			
CAHIERS	1							
VOLUMES	7							
SOXES & ALL BO	<b>4</b> 5			/	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

	AMOUNTS					
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TQTALS		
POSITIONS ON SHEET						
POSITIONS CHECKED		1,013	42	,		
POSITIONS REVISED		39	0			
DEPTH SOUNDINGS REVISED		35	11			
DEPTH SOUNDINGS ERRONEOUSLY SPACED			9			
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	•		2			
		TIME (MAN	HOURS)			
TOPOGRAPHIC DETAILS		32	8			
JUNCTIONS		7	10			
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		158	12			
SPECIAL ADJUSTMENTS		3				
ALL OTHER WORK		67	32			
TOTALS		261	62			
PRE-VERIFICATION BY		BEGINNINGDATE	ENDING	DATE		
VERIFICATION BY NICHOLOS LESTENKO	7	BEGINNING DATE 2/24/7/	ENDING	DATE 2/72		
Nicholas Lestenkon REVIEW BY Karin Malycke		BEGINNING DATE 3/19/75		ENDING DATE		

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PRICE KLANSCOMMEDC 36271-PE

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		و معید بهدید			
		CARDS CO	RRECTED		
DATE	TIME R	EQ'D		INITIALS	
REMARKS:			•		
	Re	g. No	•		

Reg. No.

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

	MAGNETIC TAPE	CORRECTED		
	e e e e e e e e e e e e e e e e e e e	•		
DATE	TIME REQ'D.	•	INITIALS	
DATE	111111111111111111111111111111111111111			

REMARKS:

H-9126
Information for Future Presurvey Reviews

Several shoals may warrant extra development on future surveys of this area. Some of these have been listed in the survey review.

Position Lat.	Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle (Years)
572	1352	2	1	50
573	1352	0	1	50

# OFFICE OF MARINE SURVEYS AND MAPS MARINE SURVEYS DIVISION

# HYDROGRAPHIC SURVEY REVIEW

# REGISTRY NO. H-9126

FIELD NO. FA-10-4-70

Alaska, Peril Strait, Rodman Bay

SURVEYED: May 5 - 21, 1970

PROJECT NO.: OPR-488 SCALE: 1:10,000

DE-723 Depth Recorders, CONTROL: Sextant Fixes SOUNDINGS: on Shore Signals Handlead

Chief of Party ..... J. B. Watkins, Jr. Surveyed by ..... J. C. Bishop

Automated Plot by ...... Gerber Digital Plotter

(PMC)

Verified by ..... N. Lestenkof

Reviewed by ..... K. Malycke

Cursory inspection made--survey D. J. Romesburg processing considered complete .... February 21, 1976

# Description of the Area

The area covered by this survey extends from the entrance of Rodman Bay to longitude 135°20.2' and includes Appleton Cove.

Rodman Bay is a small U-shaped glaciated valley that joins Peril Strait. Two major shoals positioned in latitude 57°29.75', longitude 135°16.00' and latitude 57°29.75', longitude 135°14.40' guard the entrance to Rodman Bay. The bottom drops abruptly near the shore. Alongshore features include numerous reefs, ledges, rocks awash, and tidal flats. The predominant bottom characteristic offshore is mud. Alongshore, the bottom composition is stone, boulders, gravel, and pebbles.

# Control and Shoreline

The origin of control is adequately covered in part F of the Descriptive Report.

The shoreline originates with reviewed photogrammetric manuscripts T-13325 and T-13326 of 1967 and 1970.

# 3. Hydrography

A. Depths at crossings are in good agreement.

- B. The usual depth curves are adequately delineated. The low water line was not delineated in many areas because of the steeply sloping bottom near shore.
- C. The development of the bottom configuration and the investigation of least depths are considered adequate except on several shoals which were not adequately developed for least depths. For example:
  - (1) The 3.3 in lat. 57°30.8', long. 135°17.1'
  - (2) The 3.5 in lat. 57°30.17', long. 135°17.2'
  - (3) The 2.4 in lat. 57°29.19', long. 135°17.2'
  - (4) The 3.7 in lat. 57°29.59', long. 135°16.23'
  - (5) The 4.9 in lat. 57°29.29', long. 135°17.09'
  - (6) The 4.9 in lat. 57°29.76', long. 135°16.6'
  - (7) The 3.9 in lat. 57°29.78', long. 135°14.3'

# 4. Condition of the Survey

The plotting, sounding records, and various printouts are adequate and conform to the requirements of the Hydrographic Manual and the Instruction Manual - Automated Hydrographic surveys except as follows:

- A. The low water line was not delineated in many areas because of the steeply sloping bottom near shore.
- B. A dirty stylus arm needle obliterated portions of the fathometer trace on several days.
- C. Least depths on many shoals were determined by fathometer only on 100-meter line spacing. No attempt was made to determine least depths by drift soundings, divers, or handlead.

#### 5. Junctions

Adequate junctions were effected with H-9125 (1970) on the west and with H-9122 on the east.

# 6. Comparison with Prior Surveys

# H-2238 (1895) 1:40,000

This survey covers the area of the present survey. A comparison between the prior and present surveys reveals little change in the shoreline and bottom. Present survey depths differ from prior depths by plus or minus 3 to 7 fathoms. These differences can be attributed to soundings acquired by handlead and the small scale on the prior survey versus the greater development and soundings recorded by modern fathometer on the present survey.

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

# 7. Comparison with Chart 8283 (latest print date, Sep. 1, 1973)

# 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.

Attention is directed to the following:

- (1) The 1-fathom sounding charted in latitude 57°29.66', longitude 135°14.42 originates with H-2238 (1895). However, the sketch that included this 1-fathom sounding and covered the shoal in this area is missing from the prior survey. The 1-fathom sounding should remain charted inasmuch as a 1.6-fathom depth was found on the present survey approximately 100 meters to the south.
- (2) The following three soundings, considered dangers to navigation, were applied to the chart from preliminary survey information submitted as Chart Letter 808 of 1970 and H.O. Notice to Mariners No. 30 of 1970. These soundings should be revised to concur with the present survey.

	Sounding (fms)	<u>Latitude</u>	Longitude
a.	4	57°29.3'	135°17.1' <sup>NU</sup>
Ъ.	2	57°29.1°	135°16.9'W
c.	3	57°29.6'	135°16.3' (male printin

Information on presurvey review items can be found in paragraph J of the Descriptive Report.

Except as noted above, the present survey is adequate to supersede the charted hydrography within the common area.

# Aids to Navigation

The aid presently charted adequately marks the feature intended.

# Compliance with Instructions

This survey adequately complies with the Project Instructions.

# 9. Additional Field Work

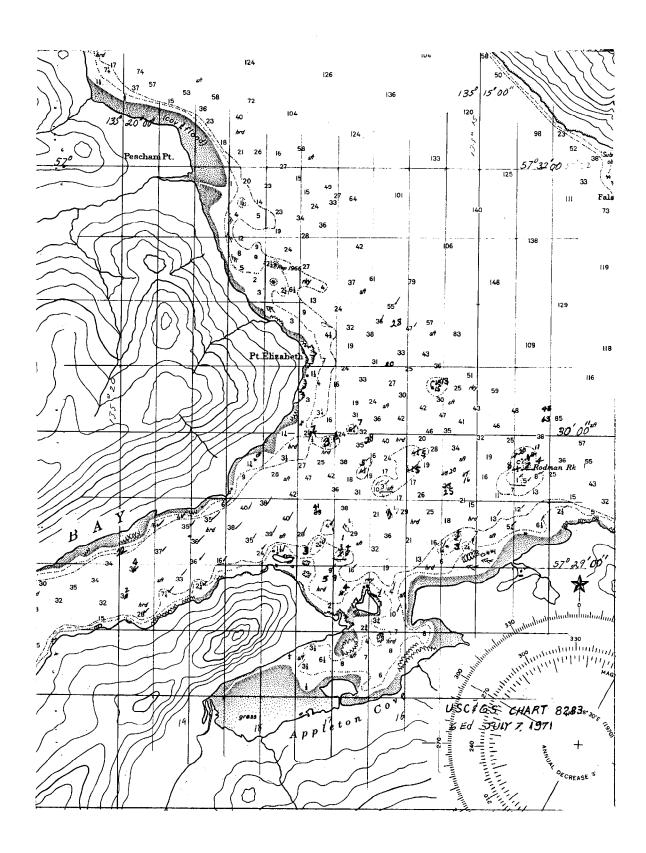
This is a good basic survey. Additional development and least depth determination on the following shoals would be desirable.

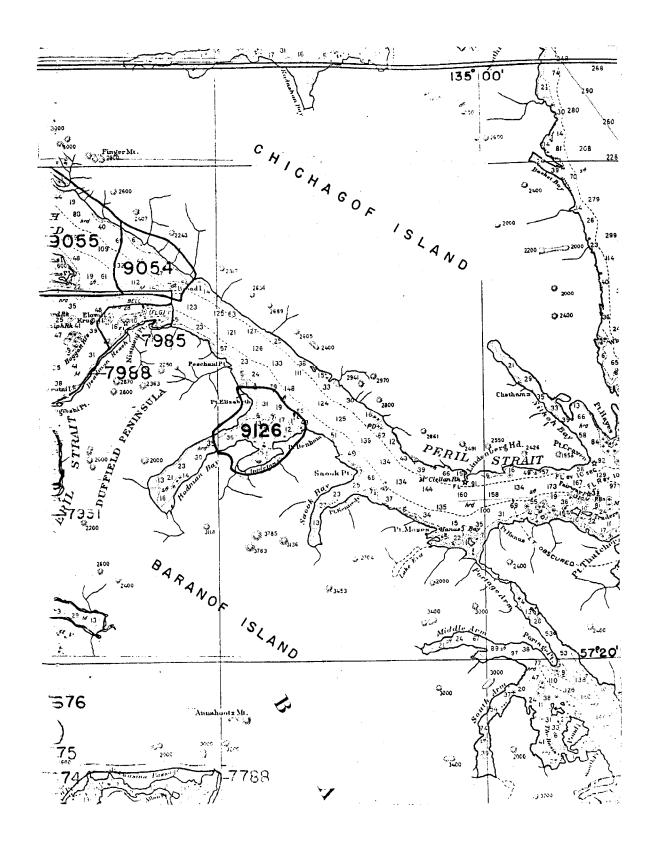
Latitude	Longitude
57°30.8'	135°17.1'
57°30.17'	135°17.2'
57°29.19'	135°17.2'
57°29.59'	135°16.23'
57°29.29'	135°17.09'
57°29.76'	135°16.6'
57°29.78'	135°14.3'
	57°30.8' 57°30.17' 57°29.19' 57°29.59' 57°29.29' 57°29.76'

Examined and Approved:

Marine Surveys Division

Associate Director Office of Marine Survey and Maps





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#### NAUTICAL CHART DIVISION

# RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9126

#### 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/
8283	6/1/12	E. Frey	<b>Pull</b> Part Bufore After Verification Review Inspection Signed Via
		,	Drawing No.7 Critical corrections only
		<u>,                                     </u>	
3252	11/15/72	E. Frey	Entl Part Before After Verification, Review Inspection Signed Via
		,	Drawing No. Critical corrections only via
			cht BZ83
8283	2/15/77	Raitol	Cht B283  Red! Her Before After Verification Review Inspection Signed Via
			Drawing No Minor revision Considered allastapped
			tell reconstruction
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 19
. 17338	5/3/88	P. Hund	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 12 Considered fully applied see item above
7320	11/2/90	Dan Dlack	Full Part Before After Verification Review Inspection Signed Via
	11/3/10	Variation 1	Drawing No. 24 APP'D THRU 17338.
			Full Part Before After Verification Review Inspection Signed Via
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