9330

9330

Diag. Cht. No. 8102-3.

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-20-3-72 Office No. H-9330
LOCALITY State
Locality Off Nichols Passage & Felice Strait.
19 72
CHIEF OF PARTY R. H. Houlder
LIBRARY & ARCHIVES
DATE 2-24-75

★U.S. GOVERNMENT PRINTING OFFICE: 1974 -763-098

AREA-6

M C&G5-537 U.S. ENVIRONMENTAL SCIENCE CC	DEPARTMENT OF COMMERCE E SERVICES ADMINISTRATION DAST AND GEODETIC SURVEY	REGISTER NO.
HYDROGRAPHIC TITLE SH	EET	н-9330
NSTRUCTIONS - The Hydrographic Sheet should be lled in as completely as possible, when the sheet i		FA 20-3-72
State Alaska		
General locality Southonst Alacka		
Locality Nichols Passage and Fe	lice Strait	4-27
Scale 1:20,000	Date of sur	
nstructions dated 07 June 1972	Project No.	OPR-424
Pessel NOAA Ship FAIRWEATHER		
Chief of party <u>CAPT R. H. HOULDER</u> CDR. S. C. Miller, Surveyed by <u>LT R. D. Hopkins.</u>	. Cmdg. LCDR D. E. Nort	
•		•
	Hono Sounder	
Graphic record scaled by <u>Hydrolog/Hy</u>	droplot system	
Soundings taken by echo sounder, head load, p Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers	droplot system	
Fraphic record scaled by <u>Hydrolog/Hy</u> Fraphic record checked by <u>Ship's Pers</u> Protracted by <u>Hydroplet</u> Foundings************************************	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Digital Flotte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings *** Protracted by Hy Ond feetis Soundings in fathoms, *** All Seetings	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Digital Flotte
Graphic record scaled by <u>Hydrolog/Hy</u> Graphic record checked by <u>Ship's Pers</u> Protracted by <u>Hydroplet</u> Soundings************************************	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Dictital Flotte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings FRANKING Plotted by Hy Ond Sentis Soundings in fathoms, XXXXX at XXXXX	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Dictital Flotte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings FRANKING Plotted by Hy Ond Sentis Soundings in fathoms, XXXXX at XXXXX	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Dictital Flatte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings FERENCE BY Plotted by Hy Ond Sentis Soundings in fathoms, XXXXX at XXXXXX	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Dictital Flotte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings FRANKING Plotted by Hy Ond Sentis Soundings in fathoms, XXXXX at XXXXX	droplot system sonnel Automa droplot	ted plot by Hydroplot PMC Gerber Dictital Flotte
Graphic record scaled by Hydrolog/Hy Graphic record checked by Ship's Pers Protracted by Hydroplet Soundings *** Plotted by Hy Ond fentis Soundings in fathoms ** REMARKS:	droplot system sonnel Automa droplot	ted plot by Hadroplot PMC Gerber Digital Flatte

Descriptive Report to accompany Hydrographic Survey FA 20-3-72 (H-9330) OPR-424 Nichols Passage and Felice Strait Alaska

A. Project

This survey is a continuation of work begun by NOAA Ship McARTHUR in 1970. The survey was accomplished in accordance with Project Instructions OPR-424-FA-72, Nichols Passage and Felice Strait, Alaska dated 07 June 1972 and with the Pacific Marine Center OPORDER.

B. Area Surveyed

The area surveyed lies in Nichols Passage south of the Bronaugh Islands and west of Annette Island. The survey area does not encompass any shoreline. Limits of the area are as follows:

North- Latitude 55° 06' N South- Latitude 54° 53' N West - Longitude 131° 45' W East - Longitude 131° 37' W

Junctions with contemporary surveys are as follows:

North- MA 10-1-70 (H-9182) 1970, 1972 East - MA 10-2-70 (H-9157) 1970 MA 10-3-70 (H-9184) 1970, 1972 FA 10-7-72 (H-9331) 1972-73 West - LJ 2157 (H-8382) 1957 South- None

Prior surves of the area are:

H-3712, 1:20,000, 1914 H-3781, 1:20,000, 1915 H-3787, 1:40,000, 1915 H-3709, 1:40,000, 1914

Hydrography began 04 October 1972 and was completed 27 October 1972.

C. Sounding Vessels

Ship FAIRWEATHER and FAIRWEATHER launch FA-5 (hydrolog equipped) were used to accomplish the hydrography. No color differentiation is made in plotting as all data was plotted

by the hydroplot system. Position numbers are as follows: \checkmark

FAIRWEATHER Positions 0001-0650 Launch FA-5 Positions 4001-4257

D. Sounding Equipment

FAIRWEATHER used Ross Model 5000 Fineline fathometer, S/N 1047, in conjunction with the hydroplot system and Raydist control throughout the hydrography. Launch FA-5 used Ross Model 5000 Fineline fathometer, S/N 1046, in conjunction with the hydrolog system and Raydist control. Depths ranging from 17 to 272 fathoms were recorded by the ship and 5 to 155 fathoms were recorded by lauch FA-5.

Velocity corrections to soundings were determined by one Nansen cast taken 16 October 1972 at latitude 54° 59' 22" N, longitude 131° 43' 16" W to 380 meters depth (208 fathoms). Velocity correction abstract is appended hereto. For details \(\sim \) and substantiation see Fathometer and Velocity Corrections Report, OPR-424, NOAAS FAIRWEATHER, 1972.

TRA and instrument error corrections for Launch FA-5 were determined by bar check. TRA corrector for FAIRWEATHER is considered 2.6 fathoms at determined by lead line comparison during previous project. All hydrography was run with fathometer initial set at zero. An abstract of daily TRA correctors is appended hereto.

Fathometers performed satisfactorily during the survey. Due to the precipitous nature of the bottom in portions of the survey area strong side echos were not uncommon. On day 278 the fathogram of FAIRWEATHER shows a trace displaced by approximately 4 fathoms between positions 0049 and 0051. No satisfactory explanation for this occurence is available. However, during the period of this displacement the hydroplot system digitizer indicated, and logged, depths consistent with the trace on either side of the displaced portion. Therefore, these logged depths were accepted as accurate.

E. Smooth Sheet

All data was plotted by the hydroplot system, discrepancies located and rectified, and data replotted in final boasheet form. All data has been logged in the hydroplot master tape format for smooth plotting at PMC.

F. Control

All hydrography in this survey was controlled by Hastings- VRaydist electronic positioning equipment. Raydist base stations were installed over existing triangulation stations "Drick 1912-21" and "Wedge 1912" located respectively in the

Kendrick and Wedge Island groups. See appended Raydist Note for specifics.

Calibration of Raydist navigators was accomplished by 3 point fixes with check angles. Conversion of fix to Raydist lane count was made by PDP8/e computer using program AM-560. Daily calibrations were made prior to beginning hydrography and at day's end.

G. Shoreline

No shoreline detail or field edit is included in this survey.

H. Crosslines

Crossline constitute 9.3% of the hydrography accomplished. Agreement between crossline and main scheme soundings was excellent considering the irregular bottom configuration in much of the area.

I. Junctions

Junction sounding comparison with H-8382, western junction, shows good agreement with discrepancies only rarely exceeding 2% of the sounded depth. Comparison with H-9157 and H-9184, (1970) on the eastern junction shows very good agreement with only minor discrepancies over steep slopes. Good agreement was obtained between FAIRWEATHER and launch FA-5 on sheet MA 10-1-70 to the north. Agreement was very good between the soundings of launch FA-5 and those of launch FA-6 on sheet MA 10-3-70 to the reast. Launch FA-5 worked both sides of 1333 (1971-73) the junction between this survey and sheet FA 10-7-72 Southeast of Percy Islands.

J. Comparison with Prior Surveys

Two presurvey review items are included in the survey area.

A dashed circle sounding of 64 fathoms at 55° 04.68 N, 131°
41.3' W has been verified as accurate? A dashed circle sounding of 45 fathoms is located at 55° 04.78 N, 131° 42.3'W, sounded depth at this location was 49 fathoms, However, a 465 fathom sounding was recorded at 55° 04.2' N, 131° 42.3' W.

**However 54-fm sounding falls in present depths of greater than 64 fms.*
The overlap with survey H-3787 (1:40,000, 1915) is a small area in the southeast corner of the current survey. Depths in the area are generally greater than 100 fathoms. Soundings on H-3787 are generally greater than those of this survey by 10-20%.

The overlap of this survey with H-3781 (1:20,000, 1915) is a small area in the immediate vicinity of Percy Point. The area is steeply sloping, dropping to 130 fathoms 0.7 nm from the point. Prior survey soundings are generally greater

than present soundings increasing to about 10% at 100 fathoms and deeper.

Prior survey H-3709 (1:40,000, 1914) overlaps the majority of the present survey area. Soundings are consistently greater on the prior survey and average 6% greater. Occasional discrepancies of greater than 10% occur in depths of 125 fathoms and deeper with the prior survey soundings being the greater.

Prior survey H-3712 (1:20,000, 1914) overlaps a portion of the eastern side of the present survey. Again the prior survey soundings are consistently greater than soundings of the present survey. Discrepancies range from zero to as much as 18% in some cases, with the average of 6% greater depth reported by the prior survey.

Considering the very irregular bottom configuration and the sounding techniques of the period, the agreement between surveys is actually good. The present survey should supersede all prior surveys of the area.

K. Comparison with the Chart

The largest scale chart of the area is NOS 8075, 1:80,000, 5th edition, 13 May 1972. Comparison of random soundings shows a good agreement between survey and published soundings. No dangers to surface navigation exist in the survey area.

A charted depth of 33 fathoms located at 54° 54.5' N, 131° 77.1' W was found to have a least depth of 29 fathoms. This item is included in the presurvey review and is discussed in The Descriptive Report of FA 10-7-72, OPR-424, NOAAS FAIRWEATHER, 1972.

1973: (1972-73)

L. Adequacy of the Survey

This survey is considered complete and adequate for charting.

M. Aids to Navigation

No floating or fixed aids to navigation are located in the survey area.

N. Statistics

FAIRWEATHER

Launch FA-5

Positions 650 Sounding lines (lnm)215.7 264 68.4

Total area surveyed - 36.1 snm Number of bottom samples- 2

O. Micellaneous

There is a longitudinal offset between the transducer and Raydist antenna aboard FAIRWEATHER. The skeg mounted Ross transducer is 108 feet aft of the foremast mounted Raydist antenna. Consequently, the true positions of soundings obtained by FAIRWEATHER are 108 feet in the direction opposite the ship's heading at the time. No compensation for the discrepancy has been made during the on-board processing. The situation was reported in the Hydrolog/ Hydroplot System Status Report, OPR-465, NOAAS FAIRWEATHER, 1972.

P. Recommendations

None

Q. References to Reports

Fathometer and Velocity Corrections Report, OPR-424, NOAAS ~ FAIRWEATHER 1972.

Descriptive Report, FA 10-7-72 (H-9331), OPR-424, NOAAS FAIRWEATHER 1972.

Hydrolog/Hydroplot System Status Report, OPR-465, NOAAS FAIRWEATHER 1972.

Respectfully submitted,

Donald E. Nortrup

LCDR, NOAA

Transmittal Sheet

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

R. H. Houlder

R 76 Houlder

CAPT, NOAA

Cmdg, Ship FAIRWEATHER

)		001 002 004	
	×	•	
D S.	· >	10003 08694 07624	
Α Ж	×	03375 03147 02201	
Triongulation Flotler CARDS	LATITUDE LONGITUDE	72 55020618 131385613 03375 10003 72 55004557 131382578 03147 08694 72 54593961 131364445 02201 07624	
Nation ALPL	LATITUDE	55020618 55004557 54593961	
Triongs		72 72 72	
	· · · · · · · · · · · · · · · · · · ·		
		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
			000000

The second secon

SIGNAL LIST FA 20-3-72

	ØØ 1	55 02 06	18 131 38	5013 TRIANGU	LATION STATION #HID, 1924 - 1970
	002	55 00 45		2578 TRIANG	
	003	54 58 33	78 131 34	5695 TRIANG	-STA- "60V-1914"
	004	54 59 39	61 131 36	4445 TRI ANG	STA. "DAVIS 1914"-1970
	-005	55 Ø6 49 (1978 TRIANG	STA-"PT-MOCARTEY LT 1921"
	886	-55 07 100		1977 TRI MG	STA HMCCARTEY 19944
	-887-	55 06 46	45 131 43	5003 TRIANG	-STA- *SNOW 1970"
	-888-	-55-07-17-	40 131 43	AAAR TRIANG	STA WHIFE 1070H
	-0.00	-55-00-02°	121-42	LOGA TRI ANG	CTA UDBON 10 1 A**
	-010	55 07 55	(1 121 27	5790 TOLANO	
$\overline{}$	- D = D			-0100 1111 1210 a	COLOR DOIL INC.

-54-51-5917--131-58-1727-TRI-ANG--STA-"DRICK-1912-21"-RED-RAYDIST-STATION

55-09-1403-131-57-2924-TRIANG-STA-WEDGE 1912"-GREEN RAYDIST-STATION

SOUND VELOCITY CORRECTORS

Depth (fathoms)	Correctors (fathoms)
0.0 - 5.9	0.0
6.0 - 15.5	+0.1
15.6 - 25.5	+0.2
25,6 - 36.0	+0.3
36.1 - 51.9	+0.4
52.0 - 75.0	+0.6
75.2 - 97.5	+0.8
97.7 - 139.0	+1.0
139.5 - 197.0	+1.5
198.0 - 284.0	+2.0

TRANSDUCER & INITIAL CORRECTORS

BOATSHEET FA 10-3-72

LAUNCH Ship FRIRWEATHER

DAY #	COMPUTER SHEET #	BEGINNING TIME	BEGINNING POS. #	TRA CORR.	INITIAL CORR.	TOTAL CORR.
278	FA 20-3-72	120611	0001	+ 2.6	0.0	+ 206
279	.,	1/2857	0096	+ 2.6	0.0	+2.6
284	•	130425	0204	+2.6	0.0	+2.6
<u>, </u>	,,	095452	0296	+2.6	0.0	+2.6
286	,,	100113	0440	+2.6	0.0	+2.6
287	,,	/0285/	0564	+2.6	0.0	+2.6
290	"	110149	0625	+2.6	0.0	+2.6
(4).	·					
						•
					,	
			i		:	
					r f	
						waren da esta de la composición del composición de la composición
7						
					:	
(
		"				

TRANSDUCER & INITIAL CORRECTORS

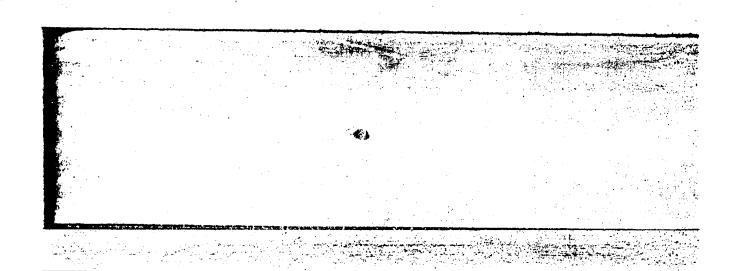
BOATSHEET FA 20.3.72

LAUNCH FA-5

DAY #	COMPUTER SHEET #	BEGINNING TIME	BEGINNING POS. #	TRA CORR.	INITIAL CORR.	TOTAL CORR.
286	FA 20-3-72	105233	4001	+0.4	0.0	+0.4
299	"	104449	4024	+0.4	0.0	+0.4
300		090501	4102	+0.4	0.0	+0.4
301	••	085754	4253	+0.4	0.0	+0.4
				·		
<i>(</i> ·				,		
			- 1			
					······································	
						:
						. - Thail Marie - 198 - 198
				· ·	****	
					,	
-						
		· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·	
						

H-9330 VELOCITY CORRECTION TABLES

000059 0 0000 0001 000 000000 000000 000155 0 0001 000255 0 0002 000360 0 0003 000519 0 0004 000750 0 0006 000975 0 0008 001390 0 0010 001970 0 0015 002840 0 0020



Reference tide gage for this project was the standard gage at Ketchikan. Field tide reduction of soundings was based on predicted tides for Metlakatla. Predicted tides were interpolated by PDP8/e computer using program AM 500.

Two Bristol Bubbler Tide Gages were installed in the project area. Location and period of operation are as follow:

Site	Location	Period
Metlakatla	55° 07.7' N	44 days
	131° 34.1' W	28 Sept - 10 Nov
Tamgas Hbr.	55° 04.0' N	22 days
	131° 32.6' W	19 Oct - 10 Nov

All gages operated on 105° W time for the entire period of operation. However, times as listed on the hourly heights abstracts, Form C&GS - 362, were based on 120° W after 0200 29 October with the change from daylight savings to standard time.

Metlakatla - Gage S/N 62A91

This site was previously occupied by NOAAS McARTHUR in 1970. The staff and gage were installed and the gage began operation on 28 September. Levels were run between staff and marks on 04 October. Two new bench marks were established making a total of five recoverable marks at the site. The marigram read 0.8 feet higher than the staff. This value is the average of five comparison readings made during routine servicing periods. (Actually seven comparisons were made, the first and last of which were discounted. The first was made prior to the time that the gage had completely settled and the last after the gage had stopped operating.) The gage operated very well with only a slight time lag. This has been adjusted in scanning the marigram. The gage was removed and levels run to three of the marks on 10 November.

Tamgas Harbor - Gage S/N 63A10293

This site was previously occupied by NOAAS McARTHUR in 1970. The gage was installed 19 October and the existing staff leveled the following day. Two new bench marks were established making a total of five recoverable marks at the site. The marigram read 3.8 feet lower than the staff, based on an average of five comparison readings. The gage was quite sensitive and it was necessary to mean out recorded wave action when scanning. This however was not a serious deficiency and the gage operation was very good. The gage was removed and levels run to three marks on 10 November.

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

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center:

Hourly heights are approved for Form 362

Tide Station Used (NOAA Form 77-12): Metlakatla

Period: September 28 - November 10, 1972

HYDROGRAPHIC SHEET: H9330

OPR: 424

Locality: Felice Strait, Southeast Alaska

Plane of reference (mean lower low water): '10.1 Metlakatla

Height of Mean High Water above Plane of Reference is 13.7 ft.

Remarks: Recommended zoning. Direct on Metlakatla gage.

James R Ha

GEOGRAPHIC MAMES Survey No.		235.	Series Oc	D (4)		Or ICA	Cure o	Asia, Lina	S. Lini	 \$ /
Name on Survey	O ^c	5. 40 00 8	Sey C	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	S. S. S. S. E	or lot	° / G	Rand	25, K	
ANNETTE ISLAND										1
CLARENCE STRAIT										2
To facint										3
PERCY ISLANDS										4
HID REEF				-						5
NICHOLS PASSAGE										6
				-						7
										8
				-				 		9
·										10
										11
·										12
										13
										14
				•						15
										
					- i -					16
										17
										18
				 .	1		}			19
	····				- ***	Prove	d →			20
					کید ۲ ای	Hay	and,	7		21
					2/26	T (ge	1226)	15/		22
					. 19	May	1975			23
			· ·							24
				·						25
										26

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,

James S. Green

Supervisory Cartographic Technician

Approved and forwarded,

Walter F. Forster, Cdr., NOAA Chief, Processing Division

Pacific Marine Center

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. H-9330

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

RECORD DESCRIPTION			АМО	UNT		RECORD DESCR	RIPTION	AMOUNT
SMOOTH SHEET & PNO				1	BOATS	HEETSCAD NOT	LOCATE	L O 1
DESCRIPTIVE R	EPORT			1	OVERL	AYS		0 3
DESCRIPTION	DEPTH RECORDS	HORIZ. C		PRIN	TOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES					1			
CAHIERS	1 .							
VOLUMES		·						
Bundles					1			

T-SHEET PRINTS (List)

None

SPECIAL REPORTS (List)

None

OFFICE PROCESSING ACTIVITIES

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

	AMOUNTS					
PROCESSING ACTIVITY	PRE- VERIFICATION	VERIFICATION	REVIEW	TOTALS		
POSITIONS ON SHEET				914		
POSITIONS CHECKED		65ø	914	764		
POSITIONS REVISED		ø				
DEPTH SOUNDINGS REVISED		96	25	121		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		Ø	**************************************			
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED	·	ø				
		TIME (MAI	NHOURS)			
Verification of Control		4	1	5		
Verification of Positions		46	20	66		
Verification of Soundings		3ø	30	60		
Smooth Sheet Compilation		34	0	34		
ALL OTHER WORK D. Report		2	<u> 19</u>	2:/		
TOTALS		116	70	186		
PRE-VERIFICATION BY		BEGINNING DATE	ENDING	_		
Mr. James Green VERIFICATION BY	· ·	1/12/74 BEGINNING DATE		12/74		
Howard E. Clark A. / 2		2/2Ø/74		LØ/75		
		BEGINNING DATE				
REVIEW BY		10 71 7	ì	en 75		

10/3/15 D.V. Romerling 10/3/15 12hrs.

ME. G.P.O. 1972-769-562/139 3EG.#6 B.K. Myers 2 Km. 7/13/8

Reg. No. 49330	Reg.	No.	119	33	O	
----------------	------	-----	-----	----	---	--

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

PATE	TIME REQ'D_	initials	
REMARKS:			• •
	Reg. No.		
has not been	tape containing the corrected to refleation and review.	ne data for this sur ect the changes made	vey
When the mag final result completed:	netic tape has been s of the survey, th	n updated to reflect ne following shall b	the e
	MAGNETIC TAPE	CORRECTED	
DATE	TIME REQ'D	INITIAL	s
REMARKS:	•		• 2

H-9330
Information for Future Presurvey Reviews

Except for changes that may occur as the result of earthquake activities, the bottom in this area is quite stable.

Positio Lat.	n Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
540	1315	0	1	50 years
540	1314	0	1	50 years
550	1315	1	1	50 years
550	1314	2	1	50 years

OFFICE OF MARINE SURVEYS AND MAPS

HYDROGRAPHIC SURVEYS DIVISION

MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9330

FIELD NO. FA-20-3-72

Alaska, Clarence Strait, Off Nichols Passage and Felice Strait

SURVEYED: October 4-27, 1972

SCALE: 1:20,000

PROJECT NO.: OPR-424

SOUNDINGS: Ross Digital Depth Recorder

CONTROL: Raydist

(Range-Range)

Automated Plot by Gerber Digital Plotter (PMC)

Verified by H. E. Clark Reviewed by L. Quinlan

Date: August 22, 1975

Inspected by D. J. Romesburg

1. Control and Shoreline

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

The small amount of shoreline added to the survey in the vicinity of Percy Islands originates with Class I unreviewed manuscript T-12456 (1963-73).

2. Hydrography

- a. The depths at crossings are in good agreement.
- b. The usual depth curves were adequately delineated.

3. Condition of Survey

The field work, survey records, automated plotting, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual

and the Instruction Manual - Automated Hydrographic Surveys, except as follows:

2

a. There was no boat sheet available at the time of review.

b. Bottom samples were not obtained as specified in section 1-42 of the Hydrographic Manual.

4. Junctions

Adequate junctions were effected with H-9814 (1970) on the east, H-9157 (1970) on the northeast, and H-8382 (1957) on the west. Junctions with surveys H-9331 (1972) and H-9182 (1970-72) will be discussed in the reviews of those surveys. No contemporary surveys junction the present survey on the south. However, present survey depths are in general harmony with charted depths.

5. Comparison with Prior Surveys

a.	H-1618a	(1883)	1:80,000
	H-1622	(1883)	1:80,000
	H-1649a	(1885)	1:80,000
	H-2142	(1892)	1:80.000

These early prior surveys fall in the area of the present survey but are not discussed in the present review.

b.	H-3709	(1914)	1:40,000
	H-3712	(1914)	1:20,000
	H-3718	(1914)	1:20,000
	H-3781	(1915)	1:20,000
	H-3787	(1915)	1:40,000
	H-4158 Ad. Wk.	(1920-21)	1:50,000

Taken together, these prior surveys cover the area of the present survey. A comparison between the prior surveys and the present survey showed good depth agreement in the shoaler areas but differences of 6-15 fathoms in depths over 100 fathoms. These differences are attributed to less accurate control and the use of a wire sounding machine on the prior surveys versus depths recorded by modern fathometer and electronic control on the present survey. With the addition of bottom characteristics carried forward from the prior surveys, the present survey is adequate to supersede the prior surveys within the common area.

c. H-3700 W.D. (1915) 1:10,000

No conflicts exist between the effective drag depths on this prior survey and the depths on the present survey.

- 6. Comparison with Charts 17434 (8075), 6th Ed., January 12, 1974 17432 (8086), 3rd Ed., October 20, 1973
 - a. Hydrography

The charted hydrography originates with the previously discussed prior surveys, which require no further consideration.

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

b. Aids to Navigation

There are no aids to navigation on this survey.

7. Compliance with Instructions

The survey adequately complies with the project instructions except for the failure to run 100-meter line spacing in depths less than 20 fathoms.

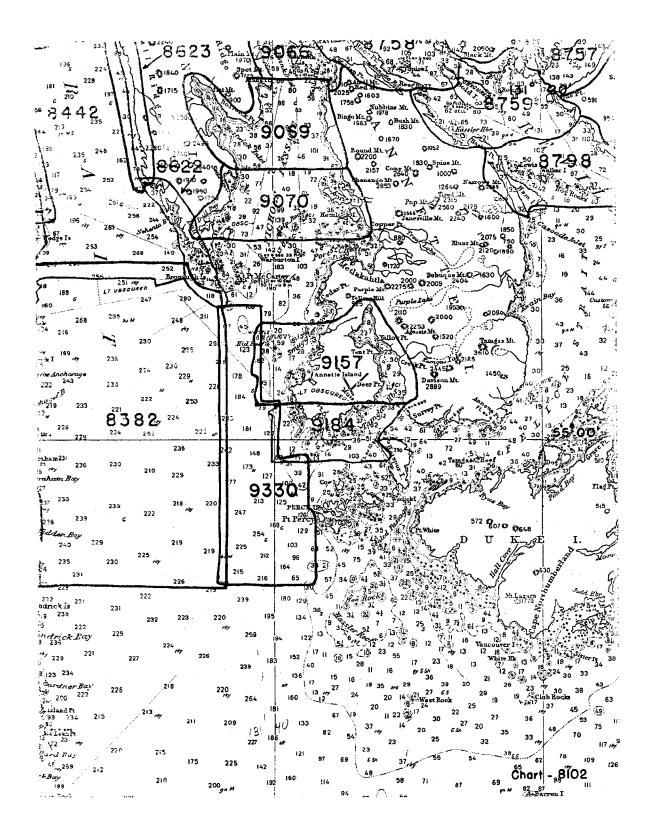
8. Additional Field Work

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

Examined and Approved:

Hydrographic Surveys Division

Office of Marine Surve and Maps



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9330

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 Portion	
	, ,	Comparison with Charter in the Paris	

CHART	DATE	CARTOGRAPHER	recommendations made under "Comparison with Charts" in the Review. REMARKS
8075	5/15/75	Kennon	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. Exam no changes
			1
8086	8/8/75	Stembel	Part Baine After Verification Day Jacques Signed Via
			Drawing No. 5 Applied critical correction 52 directly to
			Chart
8102	8/8/75	Stembel	Full Part Before After Verification Review Inspection Signed Via
*			Drawing No. 23 Examined thru Chart 8075 - no correction
8075	7/20/16	Kennon	Part Part After Verification Review Inspection Signed Via
			Drawing No. 15. added taree soundings: 102, 30 and
			a 36 fm 3dy delited a 41 and a 12 fin saintings
8086	5/26/77	Raiter o	End Part Before After Verification Review Inspection Signed Via
			Drawing No. 5 PROOF. Exam for contrad corre only. No
			1 (2)(1)
8075	7/7/78	House	Full Past Before After Verification Review Inspection Signed Via
(17434)			Drawing No. 16 Examined, no correction
			Final application
17432	10/10/80	RutoR	Full Part Before After Verification Review Inspection Signed Via
			Drawing No. 6 Fully complied
			Drawing No. 6 Fully applied
17434	8-15-83	LA Sunmons	Full Part Before After Verification Review Inspection Signed Via
1940			Decrein a Ma
			Blawing No. 13 Reapped to agree w/17432 #7
17426	Letzok4	R. Ferredon	Full After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
	·-·		

FORM CaGS-8352 SUPERSEDES ALL EDITIONS OF FORM CaGS-975.

USCOMM-DC 8558-P63