NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

<u> </u>		
Map No.		Edition No.
	т-12402	1
Job No.		
	РН-6705	
Map Class	sification	
	FINAL, FIELD EDITED MA	AP
Type of S	urvey	
	SHORELINE	
	LOCALIT	Y
State		
[ALASKA	
General L	ocality	
	THORNE ISLAND AND WHAT	E PASSAGE
Locality		
.	STEVENSON ISLAND	
	19 66 TO 1	0 70
]	19 00 10 1	7 /8
	REGISTERED IN A	RCHIVES
DATE		

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY T# 12402
13-727 WATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	2 ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	јов Рн - <u>6705</u>
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Atlantic Marine	LAST PRECEEDI	NG MAP EDITION
Center, Norfolk, Virginia	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, CDR	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2. F	FIELD
Aerotriangulation October 31, 1966	Horizontal Control	. September 8, 1966
Planning (Memo) February 8, 1967	Supplement I	March 24, 1967
Compilation February 27, 1967		
Compilation (Supp. I) November 29, 1967	1	
Compilation (Supp. II) January 20, 1972	1	
II. DATUMS	OTHER (Co (fr.)	
1. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
2. VERTICAL: XX MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION		RID(S)
Polyconic	Alaska	ZONE
1:10,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS *See Compilation H	Poport & Summary	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	*V. McNeel	Sept 1967
METHOD: Analytic Landmarks and aids by		
2. CONTROL AND BRIDGE POINTS PLOTTED BY	*J. Steinberg	Jan 1968
METHOD: Coordinatograph CHECKED BY	R. Minton	Jan 1968
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	*A. Shands	Feb 1968
COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY	NI N	
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:10,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	*A. Shands	Mar 1968
*Preliminary aerotriangulation and CHECKED BY	C. Bishop	Apr 1968
compilation performed 2/67 & 4/67 contours by	N.A.	
Smooth Draft CHECKED BY	N.A.	
HYDRO SUPPORT DATA BY	*A. Shands	Mar 1968
1:10,000 CHECKED BY	C. Bishop	Apr 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	*R. Kravitz	Nov 1978
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	L. Neterer, Jr.	Dec 1978
7. COMPILATION SECTION REVIEW BY	L. Neterer, Jr.	Dec 1978
8. FINAL REVIEW Final BY	J. Hancock	May 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Hancock	June 1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	Supt. 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES	Charge King	15ep 76
1014 LAUW 10-304 304 C435 LAUW C433 181 2FKIF2		1972_769382/582 RFG.#6

NOAA FORM 76-36B				N	ATIONAL OCE				OF COMMERCE
			T-124	102					CEAN SURVEY
		•	COMPILATI	ON SOU	RCES				
1. COMPILATION PH	OTOGRAPH'	Ŷ						_	
CAMERA(S) Wild			n TYP	ES OF PH	OTOGRAPHY				
		M= 88.20 mm		LEG		ŀ	TIMER	EFERE	NCE
TIDE STAGE REFERE			(C) C	N OB		ZONE			
XXPREDICTED TIDE			•	AN CHROM	LATIC		Pacific	c _	STANDARD
TIDE CONTROLL				FRARED		MERID			DAYLIGHT
		 -					120th	5 5 5 71	
NUMBER AND		DATE	TIM		SCALE	+		E OF TI	
66L(P)5850-589		Jul.12,19		:01	1:30,000		ft. abo		
66L(P)5841-584	43-	Jul.12,19		:55′	1:30,000	I	ft. abo		
66L(P)58352	20 -	Jul.12,19		:49 ′	1:30,000	l l	ft. abo		
66L(C)5883-588		Jul.12,19		48	1:20,000	l l	ft. abo		
66L(C)5889-589		Jul.12,19	1	:53	1:20,000	ľ	ft. abo		
66L(C)5903-590		Jul.12,19	I	:03/	1:20,000	4.8	ft. abo	ove M	LLW
66M (C) 233-234		Jul.12,19	1		1:60,000				
67M(P)635-636	*~	May 31,19	967		1:60,000				
						Mean	Range	≈ 13	.6 ft.
REMARKS									
*Bri	idging p	hotographs -	-						
2 (01100F 0F NEW	I IMEN WAT			<u>.</u>		<u>.</u>	. –		
2. SOURCE OF MEAN	N HIGH-WAT	EK LINE:							
ጥከፉ ΜΗΨ	Line wa	s compiled f	rom the a	howa .	listed pho	toaranh	c ucina	~	
		nt methods.	.IOM CHE a	bove .	risced buc	rograpii	is asmi	#	
preteo 1	riis cr dine	nt methods.							
				 -					
3. SOURCE OF MEAN	I LOW-WATE	ROR MEAN LOWE	R LOW-WATER	LINE:					
None co	ompiled.								
1,011.0	mprrou.								
						•			
							 		
4. CONTEMPORARY	HYDROGRA	PHIC SURVEYS (L	ist only those s	surveys th	at are sources i	or photogran	nmetric sur	vey info	mation.)
SURVEY NUMBER	DATE(S)	SURVEY	COPY USED	SURVE	Y NUMBER	DATE(S)	sı	JRVEY	COPY USED
H-8945	1967	Regist					ļ.		
H-9754	1978	Regist	tered						
5. FINAL JUNCTION	S			1					
NORTH		EAST		SOUTH			WEST	70.46	
т-12313		T-12403			No Survey		T-	1240	L
REMARKS									

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NOAA FORM 76~36 3-72)	c	T~12402 History of Field		NIC AND ATMOSPHER	ENT OF COMMER IC ADMINISTRATI NAL OCEAN SURV
· KX FIELD-INSP	ection ope (photo	RATION	DEDIT OPERATION		-
		PERATION		NAME	DATE
I. CHIEF OF FIEI	I D PARTY				
			J. B. Watki	ns	Sept 1966
. HORIZONTAL (CONTROL	RECOVERED BY	L. Riggers		Sept 1966
a HORIZONIAL V	CONTROL	PRE-MARKED OR IDENTIFIED BY	L. Riggers		Sept 1966
		RECOVERED BY	L. Riggers		Sept 1966
. VERTICAL CO	NTROL	ESTABLISHED BY	N.A		
		PRE-MARKED OR IDENTIFIED BY	N.A.	·	
		ECOVERED (Triangulation Stations) BY	None		
LANDMARKS A	ND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIO	GATION	IDENTIFIED BY	None		
		TYPE OF INVESTIGATION			
. GEOGRAPHIC I		COMPLETE BY			
INVESTIGATIO	N	SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
PHOTO INSPEC		CLARIFICATION OF DETAILS BY	None		
SOURCE DATA		SURVEYED OR IDENTIFIED BY	None		
. HORIZONTAL		NTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
		(*Film Contact Photos)	N.A.		
PHOTO NUMBER	1	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
66M(C)233	LAKE BAY	MAGNETIC STATION, 1916 A & B			
None	·	,			
None	NU AIDS TO F	NAVIGATION IDENTIFIED			
PHOTO NUMBER	1	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC	NAMES:	REPORT XX NONE	6. BOUNDARY AN	D LIMITS: REPO	RT XX NONE
None	AL MAPS AND				
3 - for	ms M-222	etch books, etc. DO NOT list date submit 6-12 (CSI Cards) ion Book (Form 251) for T		•	

DAA FORM 76-36C 3-72)	T-124		U. S. DEPARTME NIC AND ATMOSPHERIC NATIONA	NT OF COMMER ADMINISTRATI L OCEAN SURV
·	HISTORY OF FIELD	OPERATIONS	NOTE: Partial f	ield edit
. The Field Inspection opera	TION (XXELE)		performed and p	
FIELD INSPECTION OF EXA		DEDIT OF ERATION	for new bridgin	g photogra
OPE	RATION	<u> </u>	IAME	DATE
, CHIEF OF FIELD PARTY		 WLM		3067
	RECOVERED BY	L. Riggers		Apr 1967 Apr 1967
. HORIZONTAL CONTROL	ESTABLISHED BY	None		ADI 1907
, would be the second	PRE-MARKED OR IDENTIFIED BY	L. Riggers		Apr 1967
	RECOVERED BY	N.A.		
, VERTICAL CONTROL	ESTABLISHED BY	N.A.		
	PRE-MARKED OR IDENTIFIED BY	N.A.		
REC	OVERED (Triangulation Stations) BY	None		
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		
7104 10 1141 1011	IDENTIFIED BY	None		
crossismė nive-	TYPE OF INVESTIGATION COMPLETE			
, GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	XX NO INVESTIGATION			
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	hydrographer,	field editor	Apr 1967
. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None		1102 100.
SOURCE DATA				
. HORIZONTAL CONTROL MOENI	t if x to the control of the control	2. VERTICAL CON	TROL IDENTIFIED	<u> </u>
Paneled		N.A.		
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESI	GNATION
7M635 LAKE BAY M (Panéled I	MAGNETIC STATION, 1916 Direct)			
. PHOTO NUMBERS (Clarification	-6 d-4-6 -1	<u> </u>	<u> </u>	<u>. </u>
. PHOTO NUMBERS (CIRRICATION	or detatts)			
66L(P)5841,5843 (F	ield annotated 1:10,000	matte ratios	3)	
LANDMARKS AND AIDS TO NA				
None		<u> </u>		
HOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT N	IAME
. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AN	LIMITS: REPOR	T XX NONE
SUPPLEMENTAL MAPS AND PL	ANS			
	•			
None	b backs of BA NAT (c. c. c. c. c.		-2-2	
	h books, etc. DO NOT list data submit	tea to the Geodesy Di	vision)	
1 - form C&GS 152	•			
<pre>\F1x data for rock</pre>	s submitted with contem	porary hydro	survey)	

NOAA FORM 76-36C (3-72)	T-12402		U. S. DEPARTMENT OF COMMEN AND ATMOSPHERIC ADMINISTRAT NATIONAL OCEAN SURV
	HISTORY OF FIELD	OPERATIONS	
I. FIELD INSPECTIO	N OPERATION XX FIEL	D EDIT OPERATION	·
	OPERATION	NAM	E DATE
. CHIEF OF FIELD PAR	RTY	M Molekan	
	RECOVERED BY	M. Molchan	May 1978
. HORIZONTAL CONTR		M. Molchan None	May 1978
	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED BY	None	
. VERTICAL CONTROL	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
	RECOVERED (Triangulation Stations) BY	None	
L LANDMARKS AND	LOCATED (Field Methods) BY	None	
AIDS TO NAVIGATION	IDENTIFIED BY	None	
	TYPE OF INVESTIGATION		
. GEOGRAPHIC NAMES	COMPLETE BY		ļ
INVESTIGATION	SPECIFIC NAMES ONLY		
	NO INVESTIGATION		
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	M. Molchan	May 1978
. BOUNDARIES AND LIF	AITS SURVEYED OR IDENTIFIED BY	N.A	
I. SOURCE DATA			
I. HORIZONTAL CONTR	OL IDENTIFIED	2. VERTICAL CONTRO	OL IDENTIFIED
None		 	
PHOTO NUMBER	ST A TION, NAME	PHOTO NUMBER	STATION DESIGNATION
		1	
. PHOTO NUMBERS (CI	arification of details)		
·	•		
66 L(P)	5850 thru 5852 (Field annotat	ed 1.10 000 cro	napague ratios)
LANDMARKS AND AID	S TO NAVIGATION IDENTIFIED		A CANAL AND A CANA
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
]	
		 	
5. GEOGRAPHIC NAMES:		6. BOUNDARY AND L	MITS: REPORT XX NO

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

- l field edit report
- 1 field edit film print
- 1 76-40 form

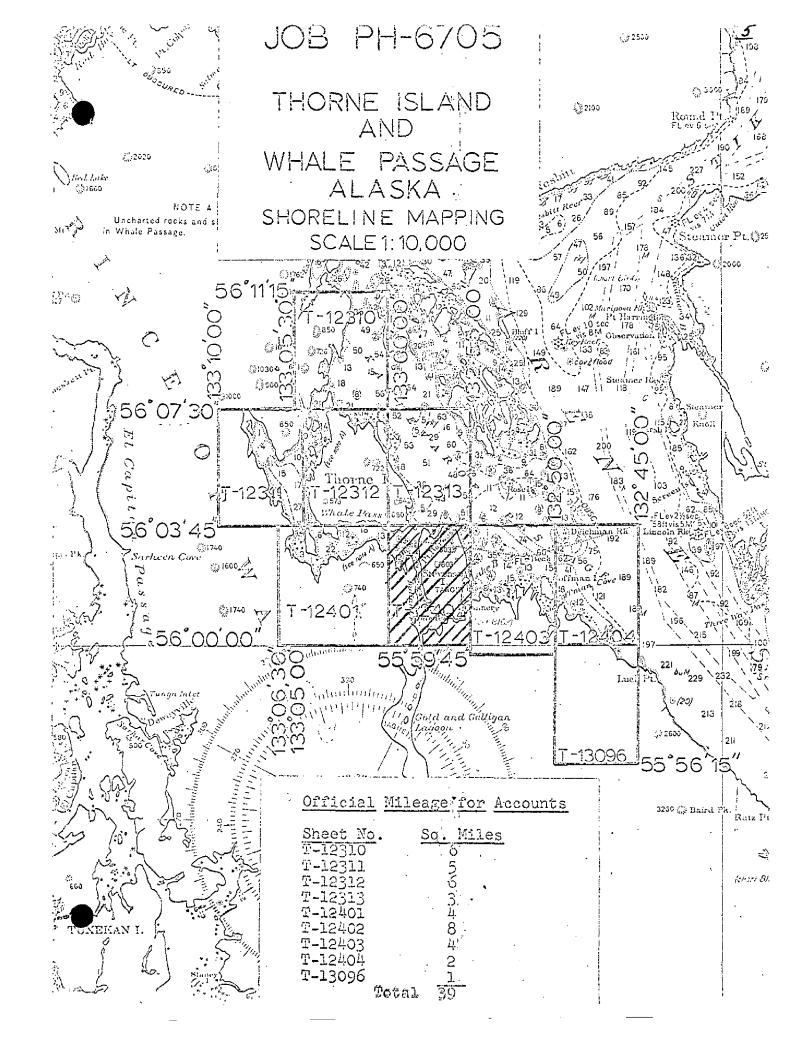
NOAA FORM 76.36D (3-72)

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

T-12402

RECORD OF SURVEY USE

1. MANUSC	RIPT COPIES					
 		MPILATION STAGE	 			PT FORWARDED
	DATA COMPILED	DATE	. AE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	tion complete				1	1
pending	field edit.	Apr 1967	Prelimina	τy	Apr 1967	Apr 1967
Manuscr	ipt re-compiled					
	w bridge. Partial		Class I		ļ	
(1967)	field edit applied	Apr 1968	(Only parti	al field ed	it) May 1968	May 1968
(1978)	field edit	Do = 1070				_
	, compilation comp	Dec 1978 Lete.	Class T Ms	unu naidu t	7. 3070	
	, comparación comb	rece.	Class I Ma	muscript	Jan 1979	Jan 19 7 9
Binol D			1			
Final Re	sorem	May 1986	Final Map		1	ĺ
II. LANDM	ARKS AND AIDS TO NAVIGA	TION				
1. REP	ORTS TO MARINE CHART DI	VISION, NAUTICAL	DATA BRANCH			
(Þ#AFE)	CHART LETTER	DATE		R	EMARKS	
(pages)	NUMBER ASSIGNED	FORWARDED	 			
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			One randid	TK Teconinen	ded for charts	
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2. 🔲 1	REPORT TO MARINE CHART	DIVISION, COAST	PILOT BRANCH.	DATE FORWARD	ED:	
	REPORT TO AERONAUTICAL		I, AERONAUTICAI	DATA SECTION.	DATE FORWARDED:	
III. FEDER	AL RECORDS CENTER DAT	A .				,
1 তি	PRINCING PROTOGRAPHS			57	ITES DEADOUTS	
1· (全身 2. [文文	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI	<u>XX</u> DUPLICATE FICATION CARDS:	BRIDGING REPO	76-40	DIEK KEADOUIS. Dry fifin partifs	!
	SOURCE DATA (except for G					
	ACCOUNT FOR EXCEPTION	S:				
4 [_]	DATA TO FEDERAL RECOR	OS CENTER. DAT	E FORWARDED:			-
IV. SURVE	Y EDITIONS (This section st	JOB NUMBE		o edition is registe		
SECOND	TP -	(2) PH	-		TYPE OF SURVEY	SURVEY
EDITION	DATE OF PHOTOGRAPH				MAP CLASS	
				□#. □	III. □IV. □V.	FINAL
· ———	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
THIRD	тр	(3) PH			REVISED RES	SURVEY
EDITION	DATE OF PHOTOGRAPH	Y DATE OF F	IELD EDIT		MAP CLASS	
					n. ∐v. ∐v.	FINAL
	SURVEY NUMBER	JOB NUMBE			TYPE OF SURVEY	Dave.
FOURTH	TP				MAP CLASS	URVEY
EDITION					mAPCLASS	n



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-12402

This 1:10,000 scale final shoreline map is one of nine maps that comprise project PH-6705, Thorne Island and Whale Passage, Alaska. The project was originally assigned as 6 maps (T-12310 thru T-12313, T-12401 and T-12402); however, 3 additional maps (T-12403, T-12404, and T-13096) were included at a later date in order to support an extended area of proposed hydrography. This map is the result of preliminary compilation, field edit of the preliminary manuscript, revised bridging data, recompilation of the manuscript and additional field edit activity.

The purpose of this map was to provide support data to assist hydrographic operations in the vicinity of Whale Passage.

This map portrays shoreline in the eastern segment of Whale Passage and features the surrounding coast of Stevenson Island.

Photo coverage for the project was provided in July 1966 with 1:60,000 scale, 1:30,000 scale, and 1:20,000 scale photographs. The 1:60,000 scale color photographs were taken with the RC-9 "M" camera for aerotriangulation. Panchromatic photographs at 1:30,000 scale were taken with the RC-8 "L" camera for aerotriangulation and instrument compilation. Supplemental color photographs at 1:20,000 scale were also taken with the "L" camera in order to assist compilation and to provide photo coverage for hydro support. Because of inadequate aerotriangulation results, additional panchromatic bridging photographs at 1:60,000 scale were flown in May 1967 with the "M" camera. The stage of tide for all photographs was based upon predicted tide data. No MLLW photographs were provided.

Field work prior to aerotriangulation consisted of the recovery and establishment of horizontal control by photoidentification methods. This activity was performed in September 1966. Additional field work was performed in April 1967 in order to establish horizontal control by premarking methods for new bridging photography. At this same time, field edit for preliminary compilation of T-12310 thru T-12313, T-12401, and T-12402 was also accomplished.

Analytic aerotriangulation was provided by the Washington Science Center in February 1967; however, adequate bridging results could not be obtained. In order to accommodate the hydrographer, the aerotriangulation office forwarded the project data to compilation with the agreement that the six initial manuscripts would be classified as preliminary. New bridging photography, as requested by aerotriangulation, was provided in May 1967. Though six manuscripts had been compiled using the original bridging results, new aerotriangulation activity was performed in September 1967. Consequently, new and adjusted horizontal control was provided and the compilation of new manuscripts was required.

T-12402

Compilation of preliminary manuscripts T-12310 thru T-12313, T-12401 and T-12402 was performed in 1967 at the Coastal Mapping Section, Atlantic Marine Center. With the anticipation of obtaining new photography, preliminary manuscript copies were submitted to the hydrographer for field edit and hydrographic support. When new aerotriangulation results were provided as a result of the new bridging photography, recompilation of the preliminary manuscripts was accomplished. This compilation utilized the field edit data that was performed by the hydrographer during the 1967 field season. Compilation of three additional manuscripts, T-12403, T-12404, and T-13096 was completed in January 1972.

Field edit and hydrographic support data for the contemporary hydro surveys were submitted in two stages. A tabulated summary of the six preliminary and three later Class III manuscripts is provided.

DATA SUBMITTED FOR FIELD EDIT	DATE OF EDIT	EDITOR	CONTEMPORARY HYDRO SURVEY
T-12310 (Preliminary)	May 1967 (Partial Edit)	C&GS Ship LESTER JONES	н-8946
T-12311 (Preliminary)	May 1967	C&GS Ship LESTER JONES	н-8945 & н-8946
T-12312 (Preliminary)	May 1967	C&GS Ship LESTER JONES	Н-8945 & Н-8946
T-12313 (Preliminary)	May 1967 (Partial Edit)	C&GS Ship LESTER JONES NOAA Ship RAINIER	H-8945 & H-8946 H-9754
T-12401 (Preliminary)	May 1967	C&GS Ship LESTER JONES	н-8945
T-12402 (Preliminary)	May 1967 (Partial Edit)	C&GS Ship LESTER JONES	H-8945
	May 1978 (Completion of Ed:	NOAA Ship RAINIER it)	н-9754
T-12403 (Class III)	May 1978	NOAA Ship RAINIER	Н-9754 & Н-9756
T-12404 (Class III)	May 1978	NOAA Ship RAINIER	H-9756
T-13096 (Class III)	May 1978	NOAA Ship RAINIER	No Survey

T-12402

The initial field edit (1967) for this map was applied at the time of recompilation. The manuscript was advanced to Class I status; however, it should have remained Class III because field edit was not performed along the eastern segment of the sheet. When hydrographic activity was resumed in 1978, the unedited portion of the manuscript along with various discrepancies from the original edit were field evaluated. Application of this data was sufficient to advance the sheet to Class I.

Final review for this final map was performed at the Atlantic Marine Center in May 1986. A comparison was made with the common nautical charts and hydrographic survey(s). The original base manuscript and related data along with a final Chart Maintenance Print and a Notes to Hydrographer Print were forwarded to the Washington Science Center for registration and distribution.

FIELD INSPECTION REPORT T-12402

Whale Passage to Thorne Island Project PH-6705

There was no field inspection prior to compilation of the PRELIMINARY manuscripts. These were compiled from office inspection, using bridge points established by the preliminary photogrammetric plot as control. Copies of the PRELIMINARY manuscripts, hydro support data, and field edit ozalids were furnished to the hydrographer for the 1967 field season. Additional horizontal control was established and field edit was performed.

Control data was returned to the office in the fall of 1967 and a new photogrammetric plot was run. The manuscripts were re-compiled, using new coordinates for the same bridge points used for the PRELIMINARY manuscripts, and classified as ADVANCE. The field edit performed in 1967 was used as field inspection for the new compilation.

Refer to PHOTOGRAMÆTRIC PLOT REPORT dated February 15, 1967 and PHOTOGRAMÆTRIC PLOT REPORT dated September 25, 1967, both submitted with this report.

PHOTOGRAMMETRIC PLOT REPORT JOB PH-6705 THORNE ISLAND AND WHALE PASSAGE, ALASKA

February 15, 1967

21. Area Covered

The area covered in this report is in the vicinity of Thorne Island. The sheets covered are T-12310, T-12311, T-12312, T-12313, T-12401, T-12402 and T-12403. Only part of T-12404 and none of T-13096 are covered by present photography. Because of inadequate bridging photography and poor placement of control, it is recommended by this office that the manuscripts be classified as "Preliminary".

22. Method

Five strips of photography were bridged by analytic aerotriangulation. Strip I (scale of 1:60,000, RC-9 color) was adjusted to ground with field identified control points. Strips 2, 3, 4 and 5 (scale of 1:30,000, RC-8 panchromatic) were adjusted to ground with common points transferred from Strip 1.

23. Adequacy of Control

The distribution of the field identified control was not optimum for a proper analysis of the adjustment of Strip 1. The control is located near both ends of the strip with nothing in the middle.

Two of the identified subpoints could not be held in the bridge. They are ROSE 1916, subpoint A and POLE 1916, subpoint A. The two points would not hold because they could not be positively identified in the office.

24. Supplemental Data

None

25. Photography

The RC-9 color photography was inadequate. The fiducial marks were not visible and the image definition was poor.

Respectfully submitted:

Do O. Horman

Don O. Norman

Approved and Forwarded:

Henry P. Eichert

tlr 2

THORNE ISLAND AND WHALE PASSAGE, ALASKA

CLOSURES TO CONTROL (FT.)

STRIP 1

1. LAKE BAY MAGNETIC STATION 1916.

2. BARNACLE ROCK 1916

3. ROSE 1916

4. POLE 1916

5. RAG 1916

6. MOSS 1916

subpoint A
$$-3.7 + 0.4$$
 subpoint B $-7.2 + 9.2$

STRIP 2

- 1.3	+ 0.6
- 8.0	+14.3
- 4.7	- 9.5
- 1.5	+ 3.7
+ 4.4	-32.1
+ 2.9	+ 1.9
- 1.4	- 2.0
+12.8	+12.3
	- 8.0 - 4.7 - 1.5 + 2.9 - 1.4

STRIP 3

LAKE BAY MAGNETIC STATION, 1916

	subpoint A	- 0.2	- 2.6
	subpoint B	- 0.2	+ 2.4
01801 01802 02804 02801 02802 02803 04801 05802	- 6.3 - 0.9 +11.5 + 9.7 + 1.5 + 2.4 + 0.7 + 1.9 + 2.3 + 4.4 + 5.8 -31.0 - 1.4 + 0.1 + 3.8 +26.3		

RAG, 1916

STRIP 4

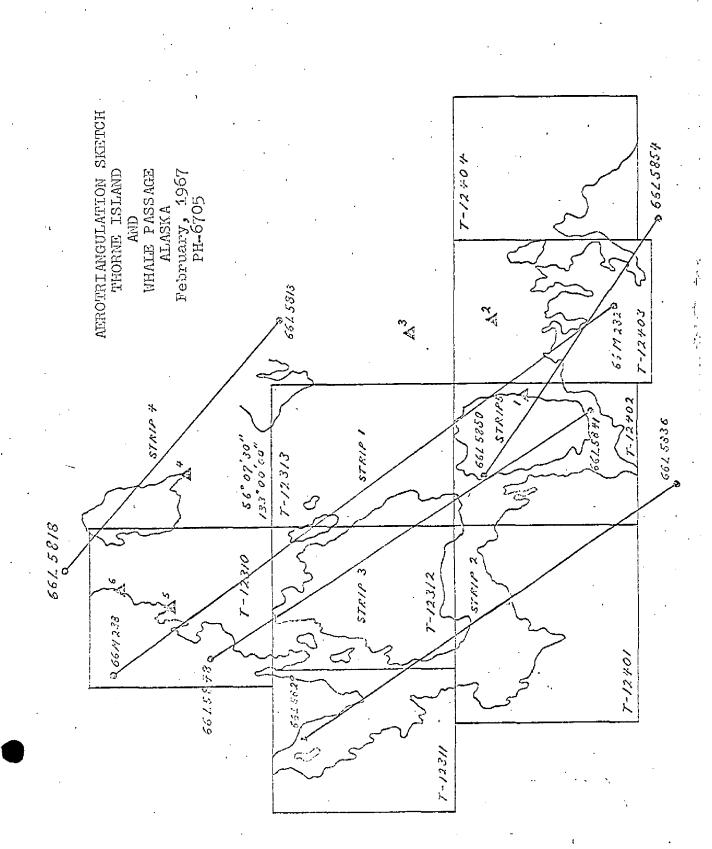
05803

05804

POLE, 1916 ·

MOSS, 1916

STRIP 5



PHOTOGRAMMETRIC PLOT REPORT Job PH-6705 Thorne Island and Whale Passage, Alaska

September 25, 1967

This report supersedes the preliminary report dated February 15, 1967. The original bridge strip of "M" photography flown in 1966 proved to be inadequate for the major portion of the area. It was, therefore, necessary to obtain a new bridge strip of "M" photography which was flown in May 1967.

21. Area Covered

The area covered is in the vicinity of Thorne Island, Alaska. The sheets covered are T-12310 thru T-12313, T-12401 thru T-12404 and T-13096.

22. Method

Five strips of photography were included in this job.

Strip 1 (scale of 1:60,000, RC-9 panchromatic) was bridged by analytic aerotriangulation and adjusted to ground with field identified control points. The bridges from the preliminary report of February 15, 1967, were retained for Strips 2, 3 and 4 (scale of 1:30,000, RC-8 panchromatic). Strips 2 and 3 were readjusted using new values for common points established by the adjustment of Strip 1. Strip 4 could not be readjusted since it had no points in common with Strip 1. The preliminary adjustment of February 15, 1967, is considered adequate for Strip 4 and should be retained. Strip 5 (scale of 1:30,000, RC-8 panchromatic) was increased by three photographs -- 66-L-5855 thru 5857. It was bridged by analytic aerotriangulation and adjusted using values for common points established by the adjustment of Strip 1.

23. Adequacy of Control

Horizontal control was adequate and complied with the project instructions. Closures to control are tabulated and attached.

24. Supplemental Data

USGS quadrangles were utilized to obtain vertical control needed for strip adjustment.

25. Photography

The coverage of the photography was adequate. The diapositives were of good quality.

Respectfully submitted:

Victor E. McNeel

Approved and forwarded:

Henry P. Eichert

Chief, Aerotriangulation Section

CLOSURES TO CONTROL (FEET) . . Job PH-6705 Thorne Island and Whale Passage, Alaska

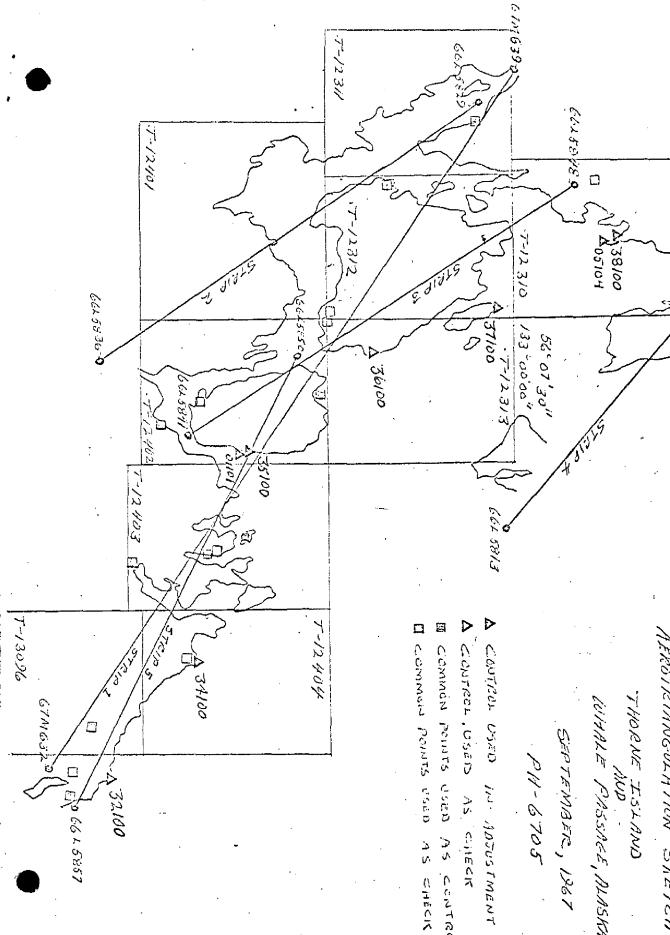
STRIP #1		
	ΔX	$\nabla \lambda$
LUCK POINT SOUTH BASE, 1915 (32100)	- 0. 3	0.0
LUCK POINT NORTH BASE, 1924 (34100)	+0.5	+0.8
LAKE BAY MAGNETIC STATION (35100)	+0.8	+1.8
BEST, 1916, Substation (36100)	+1.5	+1.4
DAVID, 1967 (37100)	-3.7	- 6.2
RAG, 1916 (38100)	+ŏ.3	+0.1

STRIP #2 ΔX 5801 -0.3 +0.3 +0.4 -0.7 4801 +1.7 2802 -1.5 +4.8 +3.8 2803 +0.2 +0.4 180Ĩ

STRIP #3 LAKE BAY MAGNETIC STATION, Subpoint A, Ollol 02804 -4.2 0.0 - 0.5 - 3.3 02802 -0.3 02803 +1.9 + 0.1 04801 RAG, 1916, Subpoint B 05104 -0.1 0.0 05805 +4.1 -11.7

STRIP #5 02805 +0.3 -3.3 -1.9 -5.8 01803 -6.4 35801 35802 34801 +0.5 -4.2 +1.9 -1.4 +3.3 34802 +1.0 33801 -1.6 -0.3 32801 +4.8 -3.2 32802 +0.5 +0.2

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EROTRIANGULATION SKETCH

THORNE ISLAND AND WHALE PASSAGE, ALASKA

CENTROL

NOAA FORM 76-41 (6-75)		1100000	you watkey taken in		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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T-12402	PH-6705		N.A. 1927	Division, AMC,	ž
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STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE	φ LATITUDE λ LONGITUDE	REMARKS
			πχ.		
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			n/=	γ	
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COMPUTED BY A. C. Rauck, Jr.		DATE 3/23/67	COMPUTATION CHECKED BY LLG		DATE 3/29/67
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES N	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

COMPILATION REPORT T-12402 PH-6705

31. DELINEATION

A preliminary manuscript was compiled with the Kelsh Plotter in 1967. Cronaflex copies of this manuscript and photo-hydro support data were furnished to the hydrographer for the 1967 field season. Additional control was established, all data was returned to the office, and a new photogrammetric plot was run using the same photography and drill points that were used for the preliminary manuscript.

New projections were furnished and the plates were re-set using the Wild B-8 instrument. The pass points used for the preliminary manuscript and hydrographic signal positions were dropped on the new projection. A new manuscript was compiled by transferring the shoreline from the preliminary manuscript, using pass points for control.

Field edit was performed in all areas except the east side of Stevenson Island in 1967 and applied to the new manuscript.

All photographs used to compile this map are listed on NOAA 76-36B. The compilation photography was adequate.

32. CONTROL

See Photogrammetric Plot Reports dated February 15, 1967 and September 25, 1967.

33. SUPPLEMENTAL DATA

None.

34. CONTOURS AND DRAINAGE

Contours are inapplicable.

Drainage was compiled from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS

Shoreline and alongshore details were compiled from office interpretation of the photographs and from the 1967 partial field edit data that was obtained for the preliminary manuscript.

36. OFFSHORE DETAILS

As the compilation photographs were taken when the stage of tide was approximately 5 feet above mean lower low water, several of the offshore rocks were not visible. The positions of these rocks were obtained from the Position Overlay which was furnished as part of the 1967 Field Edit data.

All rock elevations are from field observations.

T-12402

37. LANDMARKS AND AIDS

There are no landmarks or fixed aids to navigation within the area of this map.

38. CONTROL FOR FUTURE SURVEYS

None,

JUNCTIONS

Satisfactory junctions were made with T-12401 to the west, and T-12313 to the north. There are no contemporary surveys to the south, and T-12403 was not compiled as of the date of this report.

40. HORIZONTAL AND VERTICAL ACCURACY

Map accuracy was upgraded as a result of additional premarked control, bridging photography, and new aerotriangulation activity.

46. COMPARISON WITH EXISTING MAPS

Comparison was made with USGS Quadrangle PETERSBURG (A-3), Alaska, scale 1:63,360, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8160, scale 1:80,000, 7th edition, dated December 19, 1966.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted

Juny 2. Hancock for Charles H. Bishop Cartographer

Approved

_ Á. C. Rauck, Jr.

Chief, Coastal Mapping Division

ADDENDUM TO COMPILATION REPORT (1967)

NOTES FOR THE SMOOTH PLOTTER, PACIFIC MARINE CENTER T-12402 Project Ph-6705

Rock positions were transferred from the position overlay to the cronaflex copy of the Preliminary Manuscript by holding projection ticks; then these positions were transferred from the cronaflex copy to the Advance Manuscript by holding pass points as control.

The following items explain differences in rock positions on the position overlay and the Advance Manuscript. Space is left after each item for comments. We would appreciate the return of your comments, as we wish to correct the original manuscript.

1. Position 5004 - Height on Field Photo 66-L-5843 different than height on Boat Sheet. Height on photo was used.

2. Position 5005 - Height on Field Photo 66-L-5843 different than height on Boat Sheet. Height on photo was used.

3. Positions 5007, 5008, and 5037 are in conflict. Position locations are not the same on Field Photo 66-L-5843, Field Edit Ozalid and Position overlay. Positions on Position overlay were used; rock heights on Photo 5843 were used.

4. Position 5009 - Verify height applied to rock. Height (Cov 4 ft. MLLW) shown is the height indicated on Field Photo 66-L-5843. Boat Sheet indicates that this height may be 16 feet east of the position, and that the position may be "awash MLLW". Position 5030 - Height indicated on Field Photo 66-L-5843 is different than height shown on Boat Sheet. Height on photo was used. 6. Position 5032 - Height on Field Photo 66-L-5843 is different than height on Boat Sheet. Height on photo was used. Position 5036 should berverified; location indicated on Field Photo 66-L-5843 is different than that on the Position overlay. The position

on the overlay was used.

8. Positions 5073 and 5088 are in conflict. Position is numbered 5088 on Field Edit Ozalid; 5073 on Field Photo 66-L-5843 and Position overlay. Data for Position 5073 was used.

9. Positions 5081 and 5089 are in conflict (5081 on Position overlay and Field Photo 66-L-5843 and 5089 on Field Edit Ozalid). Data for Position 5081 was used.

10. Barnes Lake - 2 locations for Position 5120 on Position overlay; also 2 locations for Position 5122. Which positions are correct?

11. Position 5147 - two heights shown on Boat sheet; discrepancy in position between Field Photo 66-L-5843 and Position overlay. Position on overlay was used; height on photo was used. See DISCREPANCY OZALID for locations for each of the above notes.

Addendum to Compilation (1978)

T-12402

There are two field edit applications for T-12402. The first field edit was done in April 1967, using matte field photographs 66-L-5841, and 66-L-5843. No other field data could be found.

The field edit was applied during a recompilation of the manuscript. The first compilation was Preliminary. The second compilation was accomplished using the field edit data as field inspection and applying it at the time of the second compilation. The manuscript was then sent out as Advance.

There were no records submitted with the first field edit information other than the above mentioned annotated photographs. The field edit/inspection was inked with black ink so there would be no difficulty distinguishing the first field edit from the 1978 field edit.

The 1978 field edit completed what was left undone by the 1967 field edit. It was adequate.

Lowell O. Neterer, Jr. 6 December 1978

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6705 (Thorne Island to Whale Passage, Alaska)

T -12402

Barnes Lake

Indian Creek

Indian Creek Rapids

Keg Point

Lake Bay

Lake Bay Creek

Point Barnes

Prince of Wales Island

Stevenson Island

Thorne Island

Whale Passage

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

Charting and Geodetic Services

FIELD EDIT REPORT T-12402

OPR-0910-RA-78

STEVENSON ISLAND, ALASKA
Thorne Island and Whale Passage

2 Field Units

May 2, 1978 - May 21, 1978

JD (122-141)

51 METHODS

The project involved the investigation of a rock considered doubtful but charted in mid-channel, Whale Passage, S. E. Alaska. By chart and project instructions the rock position is 56°03'6"N, 132°58'4"W; however, the T-sheet position differed by 1/10 minute in latitude (56°03'7"N). To avoid any chance of an error, both areas were investigated. Refer to the Separates Following the Text for complete information on Hydrographic Operations conducted mid-channel in Whale Passage.

Hydrography was also run along the eastern edge of Stevenson Island (see progress sketch in Separates Following the Text). Field edit was conducted on Stevenson Islands eastern shore prior to and concurrent with hydrography. Edit was also performed in Whale Passage around area of investigation and was conducted by skiff and foot. Shoreline and topographic detail are noted on black and white chronapaque photographs 66L(C)-5850 and 5851. Colors with the following acceptable meaning were used on both the Manuscript and the photographs: violet-verification of features, red-additions or corrections of features, greendeletion of features. Any photogrammetrically located additions or corrections to manuscript compilation are noted directly on the photographs. All deletions of features on the manuscript determined by either hydrographic means or photogrammetric means are noted on the Field Edit Sheet.

Heights of rocks, islets and ledges were estimated at close range. Depths of submerged rocks were determined with leadline.
All rock heights are referenced to GMT.

ADEQUACY OF COMPILATION

An islet located at Lat. $56^{\circ}02'15"$ Long. $132^{\circ}55'34"$ is on chart 17401 1:10,000 scale (7th ed June 18/77) but is not on T-12402. (refer to photograph 5851 for islet location).

Approximately one-half mile of foul limit lines were deleted on the northern shoreline of Stevenson Island. The shore is gravel with no offshore dangers to navigation for small craft.

53 MAP ACCURACY

In addition to the rocks in Whale Passage (Lat. $56^{\circ}03'42''$ Long. $132^{\circ}58'26''$) a rock off the northeastern shore of Stevenson Island (Lat. $56^{\circ}03'07''$ Long. $132^{\circ}55'21''$) was disproved by hydrography. See Descriptive Report, RA-5-1-78 (H-9754) for the procedures used in the search for this non-existent rock.

South of Thorne Island heights were added to those rocks to which they had not been applied during the original Field Edit. The estimates were made at a near zero tide, close-on from a Boston Whaler.

The southeastern offshore region of Thorne Island contained the following errors:

- 1) Five rocks charted approximately 100 meters south of Thorne Island were not seen.
 - a) a search was made from a Boston Whaler at a O' tide state with 10' - 15' visibility in the water. Photograph 66L-5850 shows what could easily be in the location of the five rocks.
- An islet charted off the southeast tip of Thorne Island is actually submerged at high tide. It lies in a ledge area and is merely a misjudgement of MHWL during office compilation.

These discrepancies along with others indicated on black and white photo 66L-5850 are cause for concern.

54 COMMENTS

The original field edit of this and the surrounding T-sheets was poorly done, however even had it been done exceptionally well, hydrography was needed to provide an accurate, reliable chart of the Whale Passage - Lake Bay area.

Respectfully submitted,

mariane melinan oftig Marianne Molchan, LTJG

Field Edit Officer

Approved by,

James P. Randall, Captain, NOAA

Commanding Officer

Rock Investigation Hydrographic Report Whale Passgae AK.

Hydrography was conducted in Whale Passage between Thorne Island and Stevenson Island. The area surveyed was rectangular covering waters between Lat. 56°03'23"N and 56°04'09"N and between Long. 132°58'00"W and 132°58'48"W.

The hydrography was run in support of field edit to disprove a rock at midchannel in Whale Passage. A total of three rocks were disproved during hydrographic operations. They are as follows:

Charted Rock Position	Source Re	eason to Disprove
56°03'36.0" 132°58'24.0"		Project Inst. OPR-910-RA-78 Field Edit ask to disprove this rock.
56°03'42.0" 132°58'26.0"	T-12402	Believe to be same rock as above. Different charted position.
56°03'48.0" 132°58'33.0"		Subm. rock approx. 250m NE of the above charted rocks.

Three crosslines were run north and south to check sounding agreement and to verify accurate positioning control. Each of the three crosslines had been plotted in red ink on the boatsheet and was run directly over three charted rock or submerged rock Positions. None of the crosslines or the mainscheme lines which ran over the charted rock positions showed any indication of peaks or even the slightest shoaling to the bottom configuration.

All soundings are plotted in fathoms. Crossline soundings agree within one fathom of the mainscheme soundings. The shoalest corrected depth over any of the three charted rock positions is twenty-one fathoms.

Detached postions were taken on each of the three charted rock positions. Positioning for the "D.P."s included two mini-ranger rates and a check angle.

Mainscheme lines were run at fifty meter spacing beginning at the southern end of the sheet working north. After completion of main-scheme lines the hydrographer returned to the area and ran 'splits' on either side of the three rocks reducing the spacing to twenty-five meters.

Upon the completion of the sounding lines the areas of each of the three chasted rock positions was returned to and a spiral search pattern was run using a wide beam (45°) transducer.

All search efforts supported the same conclusion. Neither the three rocks nor even traces of these rocks were found by the hydrographer. It is recommended that the submerged rock at Lat. 56°03'48" Long. 132°58'33.0" and rock at Lat. 56°03'36.0" Long. 132°58'24.0" be removed from C-17382 1:80,000 scale 11th ed. 3/26/77 chart. It is also recommended that the rock at Lat. 56°03'42.0" Long. 132°58'26.0" be removed from Manuscript T-12402.

REVIEW REPORT SHORELINE

T-12402

61 - GENERAL STATEMENT

Final review for this final map was accomplished at the Atlantic Marine Center in May 1986. For a schedule of the office and field operations, refer to the Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with USGS quadrangle Petersburg (A-3), Alaska, dated 1953, scale 1:63,360.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of contemporary hydrographic surveys H-8945, field surveyed 1967, 1:10,000 scale and H-9754, field surveyed 1978, 1:5,000 scale. A discrepancy was noted concerning four rocks that were delineated on H-8945 at Lat. 56°03.6', Long. 133°59.2'. These rocks were disproved in 1978 during the field edit and hydrographic activity that was performed for the adjacent hydro survey H-9754. Final review will submit a Notes to Hydrographer print indicating the removal of the "rocks".

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the followin NOS charts 17401, 8th edition, dated October 6, 1979, 1:10,000 scale 17382, 12th edition, dated July 25, 1981, 1:80,000 scale.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS.

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

T-12402

Submitted by

Jerry L. Hancock Final Reviewer

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Operations, Chief, Photogrammetry Branch,

who A Muney

Rockville

Rockville

MAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. $\underline{\mathrm{PH-6705}},\ \mathrm{T-12402}$

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 Revi

CHART	DATE	CARTOGRAPHER	REMARKS
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