

T- 012310

T- 012310

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12310	Edition No. 1
Job No. PH-6705	
Map Classification CLASS III, FINAL (PARTIAL FIELD EDIT)	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality THORNE ISLAND AND WHALE PASSAGE	
Locality EXCHANGE COVE	
19 66 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TR. 12310	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS III (Final)	
				<input type="checkbox"/> REVISED		JOB PH-6705	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, AMC Norfolk, Virginia				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE  Jeffrey G. Carlen, CDR				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation October 31, 1966				Horizontal Control September 8, 1966			
Planning (Memo) February 8, 1967				Supplement I March 2, 1967			
Compilation February 27, 1967							
Compilation (Supp. I) November 29, 1967							
Compilation (Supp. II) January 20, 1972							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION  Polyconic				4. GRID(S)			
				STATE Alaska		ZONE 1	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS *See Compilation Report and 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		Apr 1968	
COMPILATION CHECKED BY							
INSTRUMENT: Wild B-8				CONTOURS BY		N.A.	
SCALE: 1:10,000				CHECKED BY		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				*A. Shands		Apr 1968	
*Preliminary aerotriangulation and CHECKED BY				C. Bishop		May 1968	
compilation performed 2/67 & 4/67				CONTOURS BY		N.A.	
METHOD: Smooth Draft				CHECKED BY		N.A.	
SCALE: 1:10,000				HYDRO SUPPORT DATA BY		*A. Shands	
				CHECKED BY		C. Bishop	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY							
6. APPLICATION OF FIELD EDIT DATA (Partial) BY				*A. Shands		May 1968	
CHECKED BY				C. Bishop		May 1968	
7. COMPILATION SECTION REVIEW (Class III) BY				C. Bishop		May 1968	
8. FINAL REVIEW (Class III) BY				J. Hancock		Apr 1986	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		June 1986	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Dempsey		Sept. 1986	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				T. M. R. R. R.		Sept 1986	

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12310  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"L", L=152.21 mm Wild RC-9"M", M=88.20 mm		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
		MERIDIAN 120th			
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
66L(P) 5816-5818	Jul.12,1966	13:39	1:30,000	4.6 ft. above MLLW	
66L(P) 5847-5848	Jul.12,1966	13:55	1:30,000	4.6 ft. above MLLW	
66L(P) 5822-5825	Jul.12,1966	13:43	1:30,000	4.6 ft. above MLLW	
66L(C) 5923-5924	Jul.12,1966	15:08	1:20,000	4.9 ft. above MLLW	
66L(C) 5860-5865	Jul.12,1966	14:38	1:20,000	4.6 ft. above MLLW	
66M(C) 236-238*	Jul.12,1966		1:60,000		
67M(P) 638-639*	May.31,1967		1:60,000		
				Mean Range = 13.6 ft.	

## REMARKS

\*Bridging photographs

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The MHW Line was compiled from the above-listed photographs using stereo instrument methods.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

None compiled.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
H-8946	1967	Registered			

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	No Survey	T-12312, T-12311	No Survey

## REMARKS

NOAA FORM 76-36C (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
T-12310 <b>HISTORY OF FIELD OPERATIONS</b>			
I. <input checked="" type="checkbox"/> FIELD INSPECTION OPERATION (photoidentification) <input type="checkbox"/> FIELD EDIT OPERATION			
OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. B. Watkins	Sept 1966
2. HORIZONTAL CONTROL		RECOVERED BY R. Melby	Sept 1966
		ESTABLISHED BY R. Melby	Sept 1966
		PRE-MARKED OR IDENTIFIED BY R. Melby	Sept 1966
3. VERTICAL CONTROL		RECOVERED BY N.A.	
		ESTABLISHED BY N.A.	
		PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION		RECOVERED (Triangulation Stations) BY None	
		LOCATED (Field Methods) BY None	
		IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION		TYPE OF INVESTIGATION	
		<input type="checkbox"/> COMPLETE BY	
		<input type="checkbox"/> SPECIFIC NAMES ONLY	
		<input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION		CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS		SURVEYED OR IDENTIFIED BY	None
II. SOURCE DATA			
1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Photoidentification (*Film Contact Photos)		N.A.	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
*66M(C)237	RAG, 1916, Sub pts. A&B		
66M(C)238	MOSS, 1916, Sub Pts. A&B		
66M(C)237	#POLE, 1916, Sub Pts. A&B		
	#Station Pole is east of map limits		
3. PHOTO NUMBERS (Clarification of details)			
None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED			
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS			
None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)			
6-- Forms M-2226-12 (CSI Cards)			

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

T-12310

## HISTORY OF FIELD OPERATIONS

NOTE: Partial field edit  
performed and premarking for  
new bridging photography.I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	WLM	Apr/May 1967
2. HORIZONTAL CONTROL	RECOVERED BY LLR	Apr 1967
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY LLR	Apr 1967
3. VERTICAL CONTROL	RECOVERED BY N.A.	
	ESTABLISHED BY N.A.	
	PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY None	
	LOCATED (Field Methods) BY None	
	IDENTIFIED BY None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY Hydrographer/field editor	May 1967
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67M638	RAG, 1916		

3. PHOTO NUMBERS (Clarification of details)

66L(P)5847 (Field annotated 1:10,000 matte ratios)

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1 - form C#GS 152 (CSI Card)

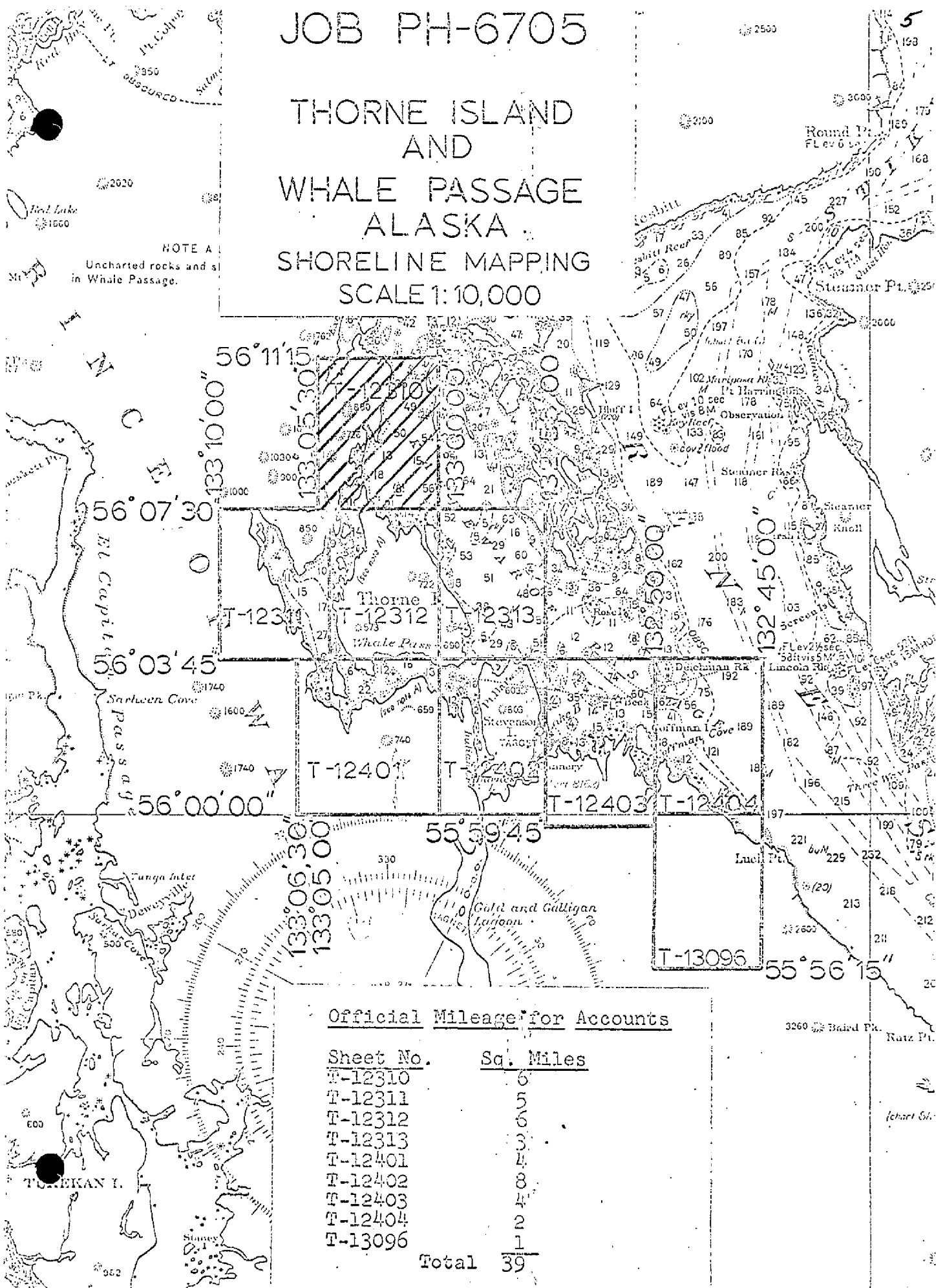
(Fix data for rocks submitted with contemporary hydro survey)

NOTE: No Field Edit Report nor Field Edit Print is available for the record.

NOAA FORM 76-36D (3-72)		T-12310		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	
RECORD OF SURVEY USE					
<b>I. MANUSCRIPT COPIES</b>					
COMPILATION STAGES				DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT	
Compilation complete pending field edit.	Apr. 1967	Preliminary Manuscript	Apr 1967	Apr 1967	
Manuscript re-compiled from new bridge data; partial field edit applied.	May 1968	Class III	May 1968	May 1968	
Compilation complete.					
Final Review	Apr. 1986	Final Class III Map			
<b>II. LANDMARKS AND AIDS TO NAVIGATION</b>					
<b>1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH</b>					
(Pages) NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS		
1			One Navigational Aid for Charts		
2. <input type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____ 3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____					
<b>III. FEDERAL RECORDS CENTER DATA</b>					
1. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS. 2. <input checked="" type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input type="checkbox"/> FORM NOS 567 SUBMITTED BY FIELD PARTIES. 3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS: 4. <input type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____					
<b>IV. SURVEY EDITIONS</b> (This section shall be completed each time a new map edition is registered)					
SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT			
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT			
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL		
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT			

# JOB PH-6705

## THORNE ISLAND AND WHALE PASSAGE ALASKA SHORELINE MAPPING SCALE 1:10,000



### Official Mileage for Accounts

Sheet No.	Sq. Miles
T-12310	6
T-12311	5
T-12312	6
T-12313	3
T-12401	4
T-12402	8
T-12403	4
T-12404	2
T-13096	1
<b>Total</b>	<b>39</b>

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SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

T-12310

This 1:10,000 scale Final Class III 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 recompilation based upon preliminary compilation, partial field edit of the preliminary manuscript and revised bridging data.

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

This map portrays shoreline along the northern portion of Kashevarof Passage between Prince of Wales Island and West Island. It defines the northern limit of the project.

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-12310

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.

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

T-12310

Field edit for this map was applied at the time of recompilation. Classification of this map will be Class III because the field edit included only the southern portion of the manuscript from Lat.  $56^{\circ}07.5'$  to Lat.  $56^{\circ}08.5'$ .

Final review for this Final Class III map was performed at the Atlantic Marine Center in April 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-12310  
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 partial 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 PHOTOGRAMMETRIC PLOT REPORT dated February 15, 1967 and PHOTOGRAMMETRIC PLOT REPORT dated September 25, 1967, both submitted with this report.

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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 1 (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:

*Don O. Norman*  
Don O. Norman

Approved and Forwarded:

*Henry P. Eichert*  
Henry P. Eichert

FM  
HPE

THORNE ISLAND AND  
WHALE PASSAGE, ALASKA  
CLOSURES TO CONTROL (FT.)

STRIP 1

1. LAKE BAY MAGNETIC STATION 1916.

subpoint A	+ 1.2	- 1.8
subpoint B	- 1.0	- 0.4

2. BARNACLE ROCK 1916

subpoint A	+ 1.8	- 2.6
subpoint B	+11.1	-11.7
subpoint C	+ 7.4	+ 8.0

3. ROSE 1916

subpoint A	+15.4	-34.6
subpoint B	+ 1.6	- 1.1
subpoint C	- 2.7	+ 0.6

4. POLE 1916

subpoint B	+ 4.0	+19.4
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5. RAG 1916

subpoint A	+ 4.6	- 1.6
subpoint B	+ 5.1	+ 0.5

6. MOSS 1916

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

STRIP 2

05801	- 1.3	+ 0.6
05802	- 8.0	+14.3
04801	- 4.7	- 9.5
02802	- 1.5	+ 3.7
02803	+ 4.4	-32.1
02801	+ 2.9	+ 1.9
01801	- 1.4	- 2.0
01802	+12.8	+12.3

STRIP 3

## LAKE BAY MAGNETIC STATION, 1916

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

## RAG, 1916

	subpoint B	+ 1.9	- 1.3
05803	+ 3.0	- 5.5	
05804	+ 7.8	+ 1.2	

STRIP 4

03801	- 0.8	- 0.5
03802	+ 9.1	+ 2.5
04802	+ 2.8	+ 2.8

## POLE, 1916

	subpoint A	+ 2.1	- 0.9
	subpoint B	- 3.5	-20.0
04804	+ 1.8	- 5.4	
04803	- 4.7	+ 2.5	

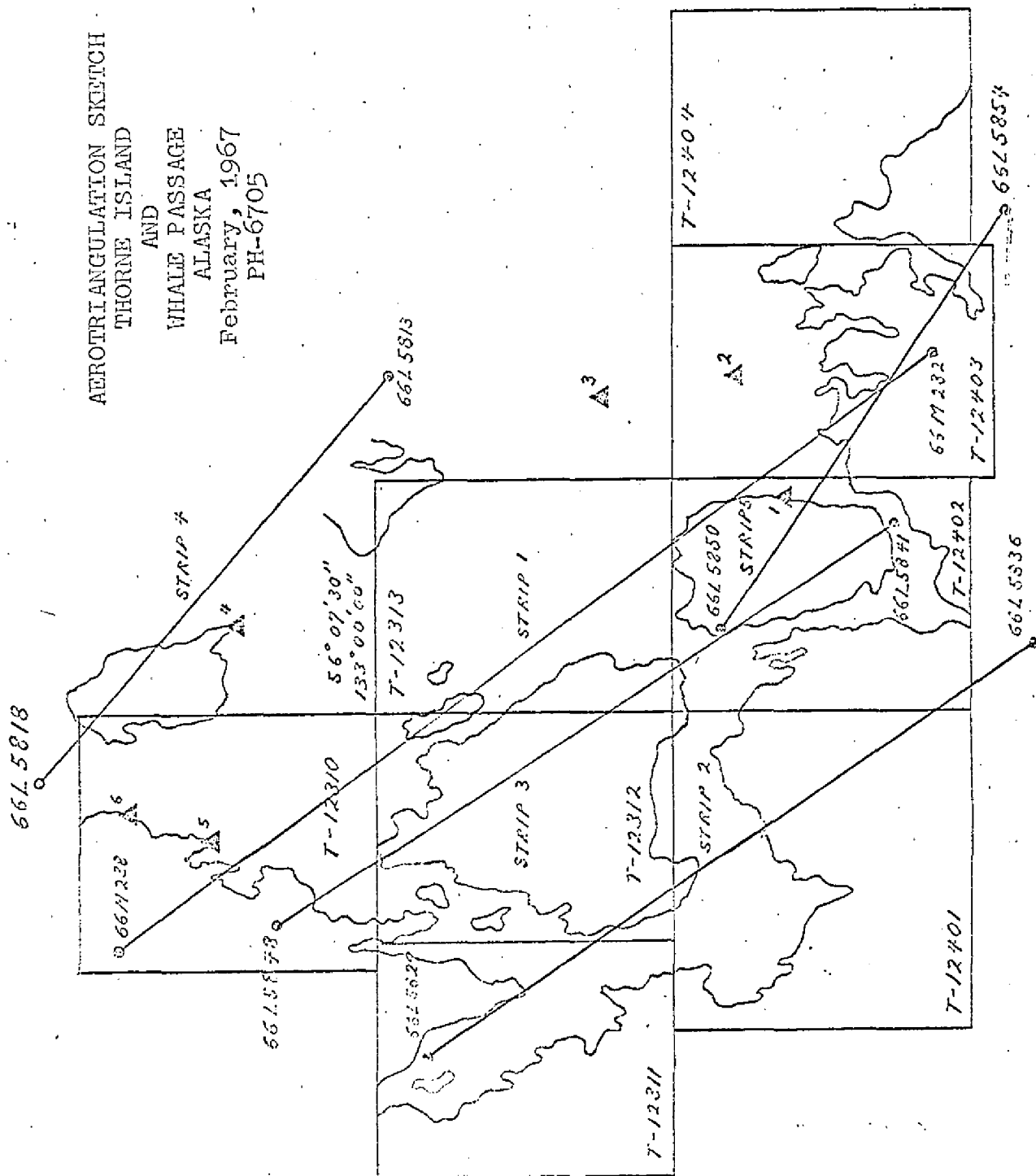
## MOSS, 1916

	subpoint A	+ 0.2	- 0.1
	subpoint B	- 2.8	+ 8.7
06801	- 0.2	0.0	
06802	+ 9.4	-24.1	

STRIP 5

02808	0.0	0.0
01801	+ 0.6	- 1.0
01806	0.0	0.0
01807	+ 0.6	- 0.4
01803	- 3.0	+ 4.8
01804	+ 2.4	- 1.7
01804	0.0	0.0

AEROTRIANGULATION SKETCH  
 THORNE ISLAND  
 AND  
 WHALE PASSAGE  
 ALASKA  
 February, 1967  
 PH-6705



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

	$\Delta X$	$\Delta Y$
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)	+0.3	+0.1

STRIP #2

	$\Delta X$	$\Delta Y$
5801	-0.3	-0.7
4801	+0.3	+1.7
2802	+0.4	-1.5
2803	+3.8	+4.8
1801	+0.2	+0.4

STRIP #3

	$\Delta X$	$\Delta Y$
LAKE BAY MAGNETIC STATION, Subpoint A, 01101	0.0	0.0
02804	-4.2	0.0
02802	-0.3	-0.5
02803	+1.9	-3.3
04801	+0.3	+0.1
RAG, 1916, Subpoint B	05104	-0.1
	05805	+4.1
		-11.7

STRIP #5

	$\Delta X$	$\Delta Y$
02805	+0.3	-0.2
01803	-3.3	-6.4
35801	-1.9	+0.5
35802	-5.8	-4.2
34801	+1.9	-1.4
34802	+1.0	+3.3
33801	-1.6	-0.3
32801	+4.8	-3.2
32802	+0.5	+0.2



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. T-12310	JOB NO. PH-6705	GEODETTIC DATUM N.A. 1927		ORIGINATING ACTIVITY Coastal Mapping Division, AMC, Norfolk, VA	
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>	GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE	REMARKS
RAG, 1916	G.P. Vol.1 pg. 146		$x =$	$\phi$ 56 09 07.912	
			$y =$	$\lambda$ 133 02 39.816	
POLE, 1916	G.P. Vol.1 pg. 155		$x =$	$\phi$ 56 09 08.353	
			$y =$	$\lambda$ 132 58 07.477	
MOSS, 1916	G.P. Vol.1 pg. 145		$x =$	$\phi$ 56 10 29.317	
			$y =$	$\lambda$ 133 02 08.727	
			$x =$	$\phi$	
			$y =$	$\lambda$	
			$x =$	$\phi$	
			$y =$	$\lambda$	
			$x =$	$\phi$	
			$y =$	$\lambda$	
			$x =$	$\phi$	
			$y =$	$\lambda$	
			$x =$	$\phi$	
			$y =$	$\lambda$	
			$x =$	$\phi$	
			$y =$	$\lambda$	
COMPUTED BY A. C. Rauck, Jr.		DATE 3/23/67	COMPUTATION CHECKED BY I.L. G.		DATE 3/29/67
LISTED BY		DATE	LISTING CHECKED BY		DATE
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

## COMPILATION REPORT

T-12310

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.

Partial field edit was performed 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 partial field edit data that was obtained for the preliminary manuscript.

36. OFFSHORE DETAILS

Field edit data was applied to offshore rocks and reefs from approximately Latitude 56°08'15" to the south limit of the sheet. Offshore details north of this latitude were compiled from office interpretation of the photographs, as there was no field inspection or field edit in the area.

T-12310

37. LANDMARKS AND AIDS

There are no landmarks in this map area. One fixed aid to navigation, Kashevarof Passage Light, was located photogrammetrically. Identification was from office interpretation and is doubtful.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Satisfactory junctions were made with T-12311 and T-12312 to the south. There are no contemporary surveys to the west, north, or east.

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-4), 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

*Gregory L. Hancock*

for Charles H. Bishop  
Cartographer

Approved

*A. C. Rauck, Jr.*

for A. C. Rauck, Jr.  
Chief, Coastal Mapping Division

ADDENDUM TO COMPILATION REPORT  
NOTES FOR THE SMOOTH PLOTTER, PACIFIC MARINE CENTER  
T-12310  
Project Ph-6705

1. Approximate Lat.  $56^{\circ} 08' 15''$  is the north limit of field edit on this map. All compilation north of this latitude is from office interpretation of the photographs.
2. Rock positions indicated on the FIELD EDIT OZALID and not visible on the photographs were not mapped; no fixes were furnished the compiler.
3. See DISCREPANCY OZALID for additional notes.

APR 30 1961

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GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T -12310

Exchange Cove

Kashevarof Passage

Prince of Wales Island

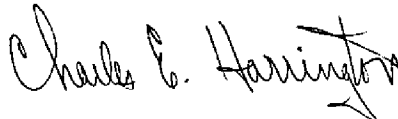
Ragged Cove

Squaw Creek

West Island

Whale Passage

Approved:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division  
Charting and Geodetic Services



REVIEW REPORT  
SHORELINE

T-12310

61 - GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in April 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-4), Alaska, dated 1953, scale 1:63,360.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The southern portion of this map from Lat. 56°07.5' to Lat. 56°08.5' is common to hydrographic survey H-8946, 1:10,000 scale, field surveyed in 1967. A comparison was made and no significant differences were noted.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS chart 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.

Submitted by

*Jerry L. Hancock*

Jerry L. Hancock  
Final Reviewer

Approved for forwarding

*Billy H. Barnes*

Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved,

*John A. Mooney*  
Chief, Photogrammetric Operations,  
Rockville

*Ronald K. Brewer*  
Chief, Photogrammetry Branch,  
Rockville



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	
POSITIONS DETERMINED AND/OR VERIFIED	A. Shands
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	
ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field                      P - Photogrammetric L - Located                  Vis - Visually V - Verified 1 - Triangulation            5 - Field identified 2 - Traverse                6 - Theodolite 3 - Intersection            7 - Planetable 4 - Resection               8 - Sextant  A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>III. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75  <b>II. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75  <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
<b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b>	

