

T- 012403

T- 012403

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12403	Edition No. 1
Job No. PH-6705	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality THORNE ISLAND AND WHALE PASSAGE	
Locality LAKE BAY	
19 66 TO 19 78	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36B
(3-72)

T-12403

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

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		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	<input type="checkbox"/> DAYLIGHT
				Pacific	
				120th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
66L(P) 5851-5853	Jul. 12, 1966	14:01	1:30,000	4.5 ft. above MLLW	
66L(C) 5891-5894	Jul. 12, 1966	14:53	1:20,000	4.7 ft. above MLLW	
66L(C) 5904-5908	Jul. 12, 1966	15:03	1:20,000	4.8 ft. above MLLW	
66M(C) 231-233*	Jul. 12, 1966	2	1:60,000		
67M(P) 634-635*	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-9754	Apr/May 1978	Registered			
H-9756	Apr/May 1978	Advance Copy			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	T-12404	No Survey	T-12402

REMARKS

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

T-12403

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION (photoidentification) ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. B. Watkins	Sept 1966
2. HORIZONTAL CONTROL	RECOVERED BY L. Riggers	Sept 1966
	ESTABLISHED BY L. Riggers	Sept 1966
	PRE-MARKED OR IDENTIFIED BY L. Riggers	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 <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
photoidentified (*Film Contact Photos)2. VERTICAL CONTROL IDENTIFIED
N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
*66M(C)233	BARNACLE ROCK, 1916, (Sub Pts. A, B, C)		
*66M(C)234	ROSE, 1916 (Sub Pts. A, B, C) (Sta. is north 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: ☐ 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)

6-forms M-2226-12 (CSI Cards)
1 Hor. Observation Book (Form 251) for T-12402 and T-12403

T-12403

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	M. Molchan	May 1978
2. HORIZONTAL CONTROL	RECOVERED BY M. Molchan ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	May 1978
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 S. Miller IDENTIFIED BY None	Apr 1978
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 M. Molchan	May 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details)

66L(P)5851-5853 (Field annotated 1:10,000 cronapaque 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

1 Planetable sheet for offshore islands (T-12403 & T-12404)

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

1 Field edit report

1 Field Book (Planetable observations)

1 Field edit film print

1 form 76-40.

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit	Jan. 1972	Class III Manuscript	Feb. 1972	Jan. 1972
Field edit applied, compilation complete.	Dec. 1978	Class I Manuscript	Jan. 1979	Jan. 1979
Final Review	May 1986	Final Map		

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER (pages)	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1			One Navigational Aid for Charts

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS. 76-40 ~~50~~ SUBMITTED BY FIELD PARTIES.
3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

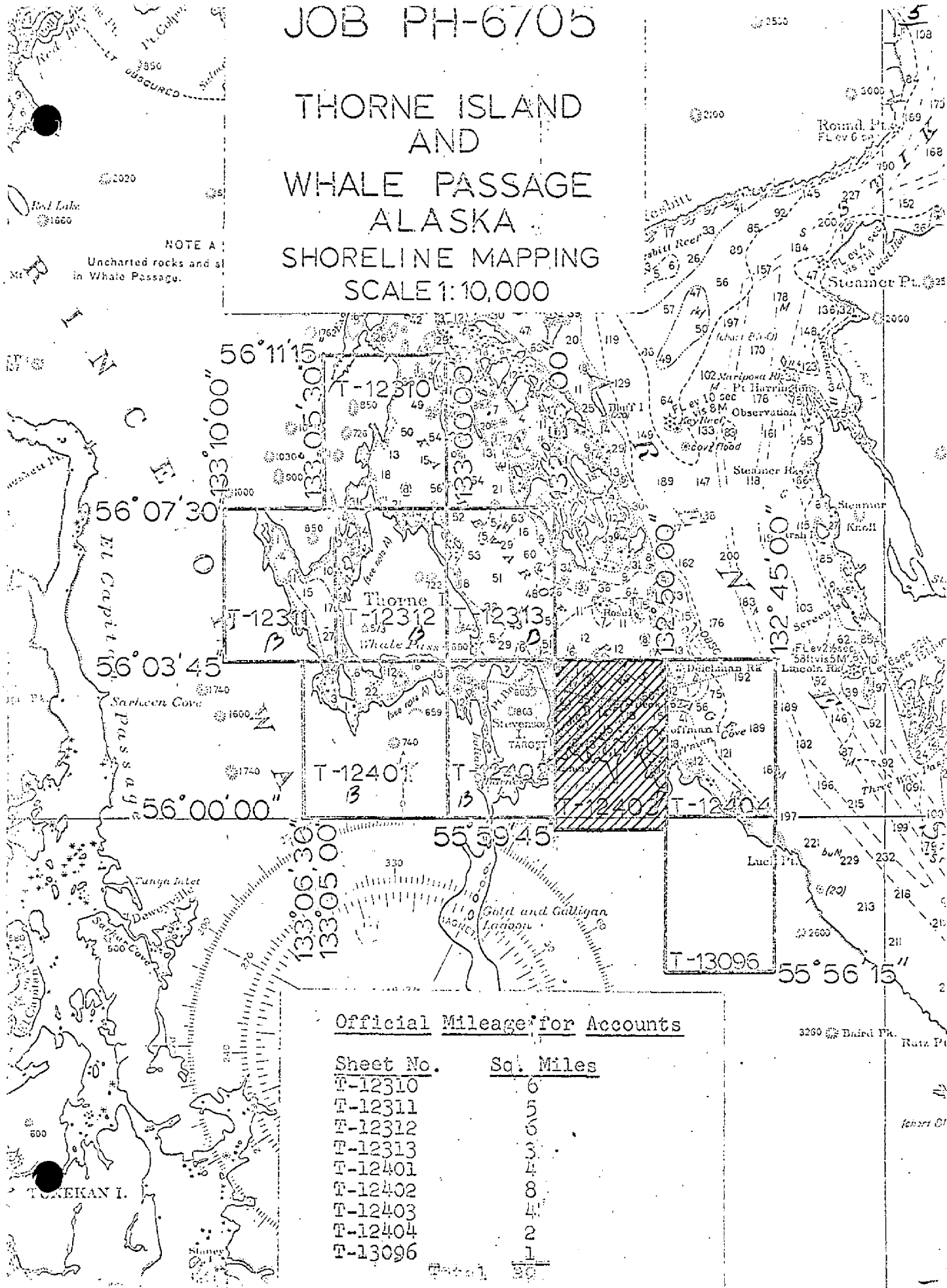
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

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

NOTE A
Uncharted rocks and shoals in Whale Passage.



Official Mileage for Accounts

Sheet No.	Sq. Miles
T-12310	6
T-12311	3
T-12312	6
T-12313	3
T-12401	4
T-12402	8
T-12403	4
T-12404	2
T-13096	1
Total	37

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12403

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.

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 rocky region of Lake Bay just south of Kashevarof Passage and east 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-12403

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. Copies of these three Class III manuscripts were submitted to Marine Charts and to the hydrographer for field edit.

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-12403

Field edit for this map was applied at the original compilation office in December 1978.

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 surveys. 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

T-12403

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.

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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:

H. P. Eichert
Henry P. Eichert
FIM HCZ

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	

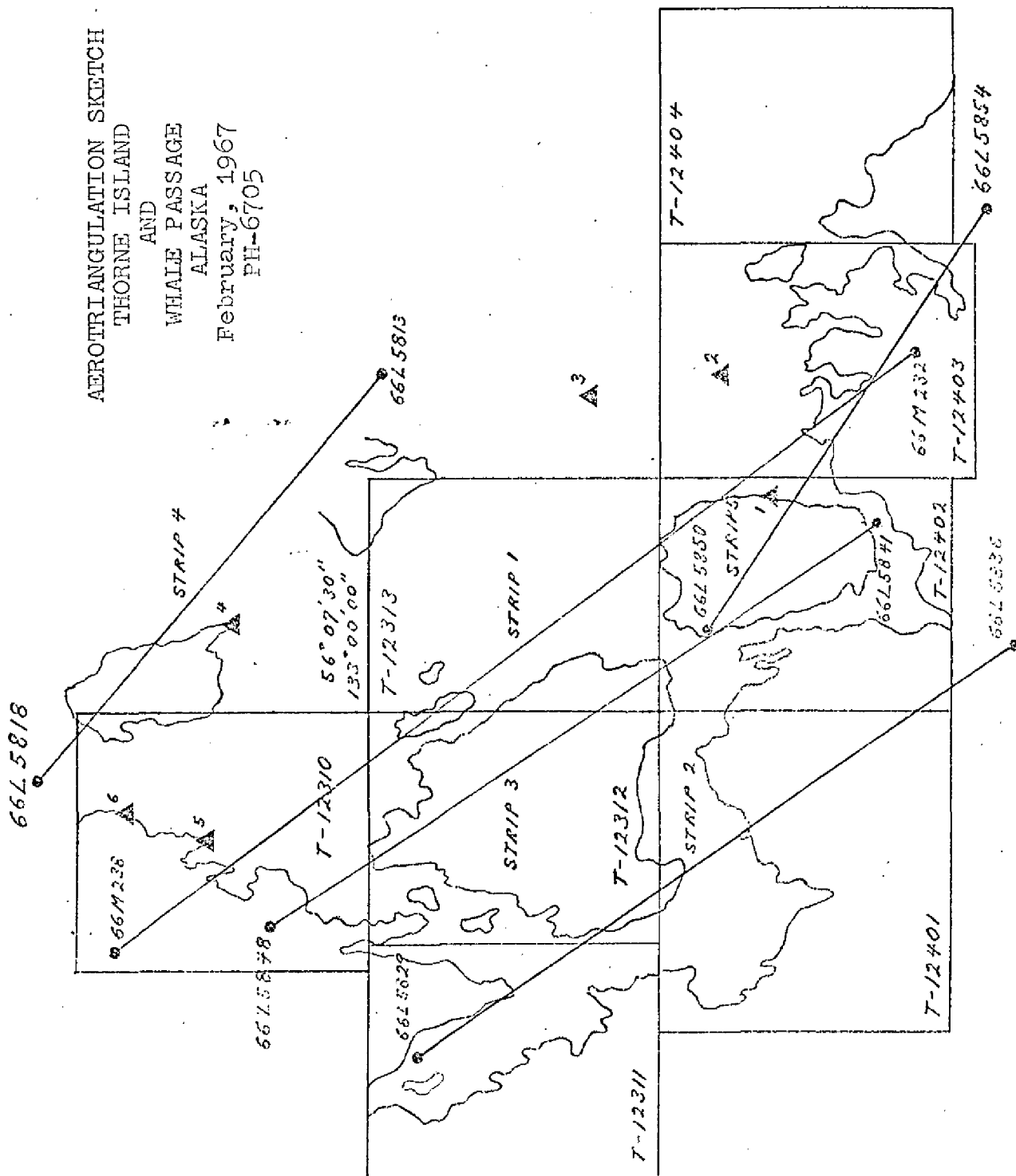
MOSS, 1916

	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.

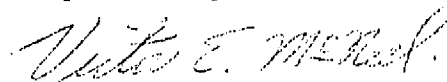
24. Supplemental Data

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

25. Photography

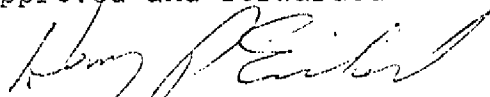
The coverage of the photography was adequate. The diapositives were of good quality.

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

	ΔX	ΔY
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

	ΔX	ΔY
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

	ΔX	ΔY
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	0.0
05805	+4.1	-11.7

STRIP #5

	ΔX	ΔY
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

AEROTRIANGULATION SKETCH

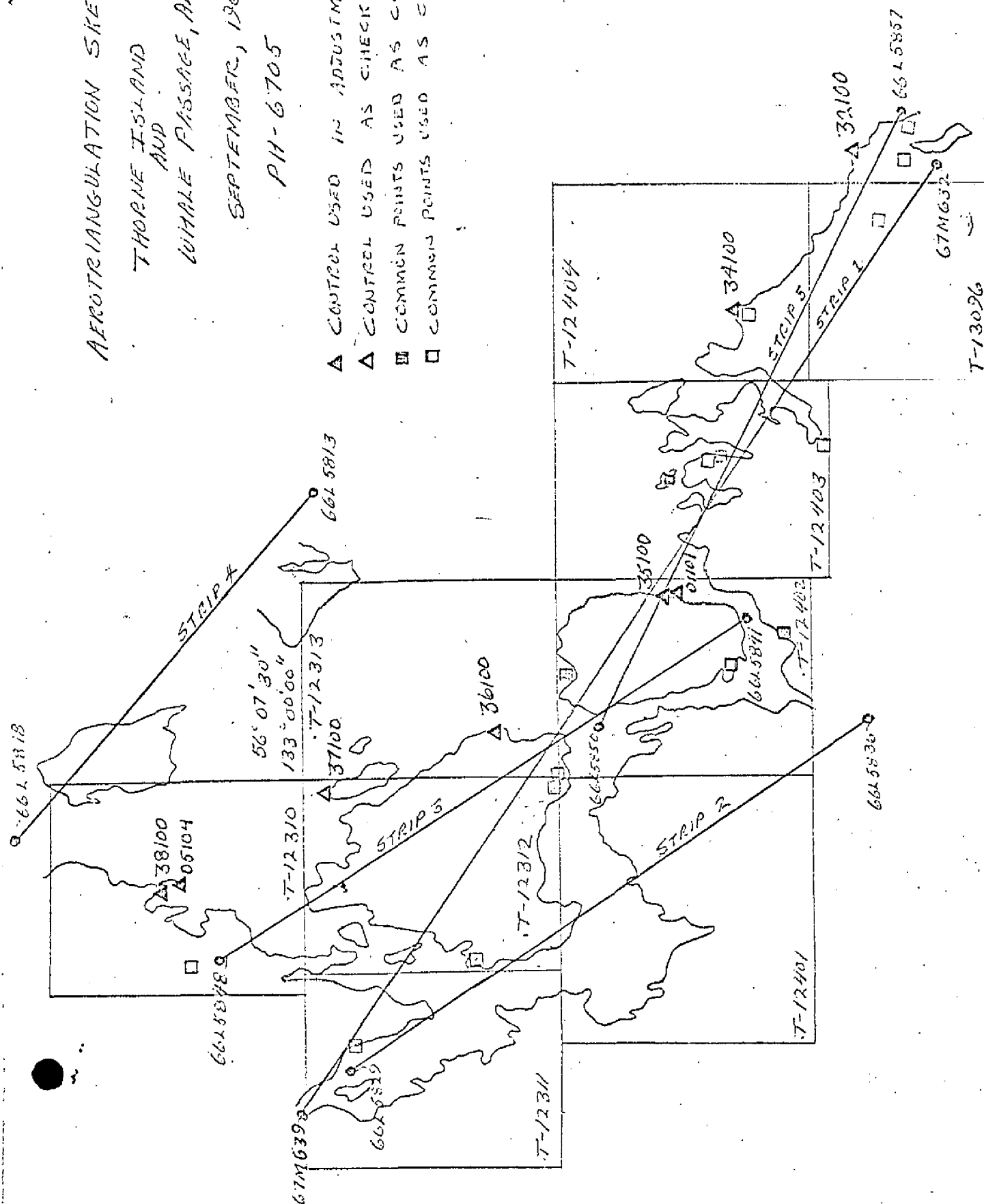
THORNE ISLAND
AND

WHALE PASSAGE, ALASKA

SEPTEMBER, 1967

PH-6705

- △ CONTROL USED IN ADJUSTMENT
- △ CONTROL USED AS CHECK
- COMMON POINTS USED AS CONTROL
- COMMON POINTS USED AS CHECK



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS	
T-12403		PH-6705		N.A. 1927		Div., AMC, Norfolk, VA			
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS		
			STATE	ZONE	ϕ LATITUDE	λ LONGITUDE			
BARNACLE, 1916	G.P. Vol. I pg. 157		X=		ϕ	56 02 44.530			
			Y=		λ	132 52 46.230			
BUSH, 1916	G.P. Vol. I pg. 146		X=		ϕ	56 03 36.088			
			Y=		λ	132 54 40.627			
COFFMAN, 1915	G.P. Vol. III pg. 985		X=		ϕ	56 02 10.956			
			Y=		λ	132 50 35.154			
PEAK 15, 1916	G.P. Vol. I pg. 159		X=		ϕ	56 00 13.791			
			Y=		λ	132 54 07.976			
TRIPLER ISLAND, HIGHEST TREE, 1915	G.P. Vol. I pg. 121		X=		ϕ	56 03 38.808			
			Y=		λ	132 50 04.601			
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
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			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
			X=		ϕ				
			Y=		λ				
COMPUTED BY	L. O. Neterer, Jr.	DATE	COMPUTATION CHECKED BY				DATE		
			R. White				1/10/71		
LISTED BY		DATE	LISTING CHECKED BY				DATE		
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY				DATE		

COMPILATION REPORT
T-12403
PH-6705

31. DELINEATION

The Wild B-8 stereoplotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 scale compilation photographs. The compilation photographs did not cover two islands in the northern portion of this sheet, namely "Beck Island" and "The Triplets". These are to be located by field methods during field edit.

There was no field inspection prior to compilation.

All photographs used to compile this map are listed on NOAA form 76-36B. The compilation photography was adequate except for the previously mentioned photo coverage.

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

The mean high water line, foul area and rocks were compiled from office interpretation of the photographs.

There was no low water photography for delineation of the low water line.

36. OFFSHORE DETAILS

Delineated from the compilation photographs.

T-12403

37. LANDMARKS AND AIDS

None.

38. CONTROL FOR FUTURE SURVEYS

A sufficient number of "pass points" have been established to facilitate the location of hydro signals.

39. JUNCTIONS

See form 76-36B.

40. HORIZONTAL AND VERTICAL ACCURACY

See Photogrammetric Plot Report dated September 25, 1967.

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

R. J. Pate
for R. J. Pate
Cartographic Technician

Approved

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

ADDENDUM TO THE COMPILATION REPORT

T-12403

FIELD EDIT

There were no problems encountered. Information was adequate for rock heights, ledge and foul areas.

The northeast corner of T-12403 was not covered by the compilation photographs. This area was compiled by planetable survey methods. The compilation was at a scale of 1:5,000 for more detailed representation of features and to reduce graphic error.

The planetable information was reduced by use of the vertical projector to the manuscript scale of 1:10,000. There were certain areas designated as kelp without limiting lines. Labels were added to the manuscript in approximately the same positions as shown on the planetable survey.

Beck Island could not be delineated from the uncontrolled hydrographic support photography as suggested by the field editor. This feature was not compiled.

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12403

Barnacle Rock

Bush Rock

Coffman Cove

Coffman Island

Grassy Lake

Gull Rock

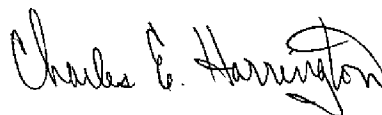
Kashevarof Passage

Lake Bay

Prince of Wales Island

The Triplets

Approved:



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

FIELD EDIT REPORT
T-12403

OPR-0910-RA-78

THORNE ISLAND AND WHALE PASSAGE, ALASKA
Lake Bay

1 FIELD UNIT

APRIL 24, 1978 - MAY 24, 1978
JD (114-144)

51 METHODS

All shoreline delineated on T-12403 was verified from a skiff or on foot. Shoreline and topographic detail are noted on black and white chronapaque photographs 66-L(P)5851, 5852 and 5853 using colors with the following accepted meanings: violet-verification of features, red-additions or corrections to features, green-deletion of features. All additions and corrections to the manuscript are noted directly on the photographs. Any deletion of features were made only after confirmation by the hydrographer or by direct observation and 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 lead lines. All times noted are GMT.

Third order geodetic signals and photo-hydro signals were used for positioning control for visual Hydrographic Surveys RA-5-1-78 and RA-5-2-78 and for locating those rocks not visible on the photographs. (See Progress Sketch in separates for Hydrographic Limits) Detached Positions on all rocks which were not located by the photo field party are included in the Hydrographic Descriptive Reports RA-5-1-78 and RA-5-2-78 to avoid duplication. Manuscript T-12403 does not have complete photo coverage. The limit of photo coverage is noted in the north eastermost corner of Field Edit Sheet T-12403. Beck Island and a portion of the Triplets lie outside photo coverage. Shoreline and topographic detail were verified by plane-table methods on the Triplets. The largest portion of the Triplets Islands lie on manuscript T-12404 therefore the entire Triplets area is described in Field Edit Report OPR-0910-RA-78, T-12404. Since Beck Island appears on color photographs 66L(C)5894, 5893 and 5905 shoreline was not delineated by field methods leaving it to office methods. Office compilation is able to create a more accurate delineation of the shoreline from stereo models using the color photography.

52 ADEQUACY OF COMPILATION

The compilation of manuscript T-12403 is neither adequate or complete in depiction of all rocks. Numerous rocks were not depicted. Foul limits were used much to liberally. There were a number of incorrect delineations. Approximately one and one-half miles of shoreline had foul limit lines in areas of gravel shoreline. In off-shore foul areas (delineated by foul limit lines) many photogrammetrically visible, and previously charted rocks were not plotted on the T-sheet. For these additions refer directly to the photographs. Deletions of the foul limits are noted on the Field Edit Sheet.

-2-

53 MAP ACCURACY

The MHWL was incorrectly delineated there being instances both of islands being depicted as rocks and rocks depicted as islets. A few islets were missed entirely and one islet at Lat. $56^{\circ} 01' 17''$, Long. $132^{\circ} 50' 15''$ appeared on the Field Edit sheet but not on the Photo-Signal Ozalid.

At Lat. $56^{\circ} 01' 45''$, Long. $132^{\circ} 54' 25''$ the MHWL on Manuscript T-12403 indicates a rock outcropping but is actually an islet. This feature is depicted correctly on chart 17401 1:10,000 scale yet is not on T-12403.

54 COMMENTS

There is little doubt that had this project been properly field edited originally the RAINIER would not have had to duplicate the effort; however, there is also little doubt that hydrography would have been necessary in any case to provide a correct and current chart of the area.

Respectfully submitted,

Marianne Moichan LTJG
Marianne Moichan, LTJG
Field Edit Officer

Approved by,

James P. Randall
James P. Randall, Captain, NOAA
Commanding Officer

REVIEW REPORT
SHORELINE

T-12403

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

Portions of two contemporary hydrographic surveys H-9754 and H-9756, at 1:5,000 scale and field surveyed in April/May 1978 are common to this map. A comparison with a registered copy of H-9754 and an advance copy of H-9756 did not reveal any significant discrepancies.

65 - COMPARISON WITH NAUTICAL CHARTS

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

A "rock" at Lat. 56°01.8', Long. 132°53.4' was originally compiled on the Class III manuscript as a very questionable offshore feature subject to field edit. Because this feature plots at a depth of approximately 50 ft., the field editor performed an extensive investigation; however, no rock was found. During final review it became obvious that the feature is actually a photo processing imperfection that appears only on one cronapaque ratio photo (66 L(P) 5853). Though this "rock" never did exist, it was charted on both charts from a Class III copy submitted to Marine Charts in February 1972. A final Chart Maintenance Print will be submitted with a supporting explanation and recommendation for chart removal.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

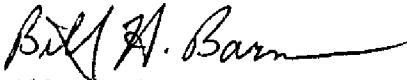
T-12403

Submitted by



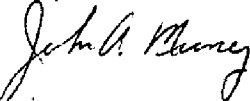
Jerry L. Hancock
Final Reviewer

Approved for forwarding

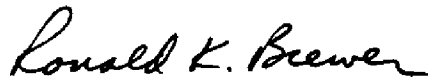


Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,



John A. Cheney
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	S. Miller
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.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS 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	FIELD (Cont'd) 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. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED 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	III. TRIANGULATION STATION RECOVERED 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 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
**FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.	

