T-12312

T-12312

NOAA FORM 76-35
(6-80)

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

DESCRIPTIVE REPORT

Map No.	*Edition No.*
T-12312	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
THORNE ISLAND

19 66 TO 19 67

REGISTERED IN ARCHIVES

DATE

*U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) — U. S. DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TR. 12312

MAP EDITION NO. (1)

MAP CLASS Final

JOB PH. 6705

PHOTOGRAMMETRIC OFFICE: Coastal Mapping Division, Atlantic Marine Center, Norfolk, Virginia

OFFICER-IN-CHARGE: Jeffrey G. Carlen, CDR

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED

JOB PH. ____

MAP CLASS ____

SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Aerotrianuglation	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: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [X] MEAN LOWER LOW-WATER [ ] 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 & 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 COMPILATION	PLANIMETRY BY	*A. Shands	May 1968
	CHECKED BY	C. Bishop	May 1968
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:5,000 pantographed to 1:10,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	*A. Shands	Apr 1968
*Preliminary aerotriangulation and compilation performed 2/67 & 4/67	CHECKED BY	C. Bishop	May 1968
	CONTOURS BY	N.A.	
METHOD: Smooth Drafted	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	*A. Shands	Apr 1968
SCALE: 1:10,000	CHECKED BY	C. Bishop	May 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY		
6. APPLICATION OF FIELD EDIT DATA	BY	*A. Shands	Jan 1968
	CHECKED BY	C. Bishop	May 1968
7. COMPILATION SECTION REVIEW	BY	C. Bishop	May 1968
8. FINAL REVIEW Final	BY	J. Hancock	May 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	June1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Sept. 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	[signature]	Sep 1986

NOAA FORM 76-36A — SUPERSEDES FORM C&GS 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B
(3-72)

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

T-12312

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-8"L", L=152.21 mm
Wild RC-9"M", M= 88.20 mm

TIDE STAGE REFERENCE
- [x] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE
ZONE: Pacific — [x] STANDARD
MERIDIAN: 120th — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
66L(P)5844 thru 5847	Jul.12,1966	13:55	1:30,000	4.6 ft. above MLLW
66L(P)5831	Jul.12,1966	13:49	1:30,000	4.6 ft. above MLLW
66L(C)5866 & 5867	Jul,12,1966	14:43	1:20,000	4.6 ft. above MLLW
66M(C)236*	Jul.12,1966		1:60,000	
67M(P)637*	May 31,1967		1:60,000	
				Mean Range = 13.6 ft.

REMARKS
*Bridging photographs

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled from the above listed photographs using stereo instrument methods.

3. SOURCE OF ~~MEAN LOW-WATER LINE~~ 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-8945	1967	Registered			
H-8946	1967	Registered			

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
T-12310	T-12313	T-12401	T-12311

REMARKS

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

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

T-12312

HISTORY OF FIELD OPERATIONS

I. [xx] 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	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None.	
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 [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [xx] NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. *BOUNDARIES AND LIMITS*	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

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 [xx] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [xx] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36C
(3-72)

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

T-12312

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION ☒ FIELD EDIT OPERATION and Premarking for new bridging photography

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		W.L.M.	Apr/May1967
2. HORIZONTAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	L. L. Riggers	Apr 1967
	PRE-MARKED OR IDENTIFIED BY	L. L. Riggers	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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION — BY		
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	Field Editor /hydrographer	May 1967
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None	

II. SOURCE DATA

1. HORIZONTAL CONTROL Paneled

2. VERTICAL CONTROL IDENTIFIED N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67-M-637	DAVID, 1967		

3. PHOTO NUMBERS *(Clarification of details)*

66L(P)5830, 5832, 5846, 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 ☒ NONE

6. 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.

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)

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

T-12312

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Preliminary Manuscript Alongshore Area for Hydro	Mar. 1967	Preliminary Manuscript	Apr 1967	Apr 1967
Manuscript recompiled from new bridge data; field edit data applied.	May 1968	Class I	May 1968	May 1968
Final Review	May 1986	Final Map		

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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

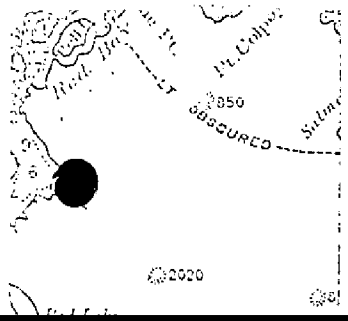
III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 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)*

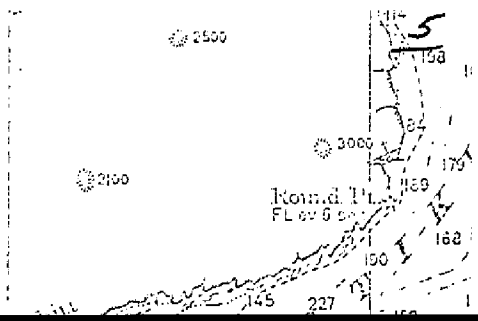
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL

☆ U.S. GPO: 1977-765-092/1106 Region 6



JOB PH-6705

THORNE ISLAND AND WHALE PASSAGE



[redacted]

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12312

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 recompilation based upon preliminary compilation, 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 a portion of shoreline in Whale Passage along the western coast of Thorne 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.

CA

T-12312

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	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-12312

Field edit for this map was applied at the time of recompilation. Though the field edit was performed for the preliminary manuscript, it was sufficient and justifiable for advancing the new manuscript to Class I.

Final review for this final Class III 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-12312
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 REPORT
JOB PH-6705
THORNE ISLAND AND
WHALE PASSAGE, ALASKA

February 15, 1967

21. Area Covered

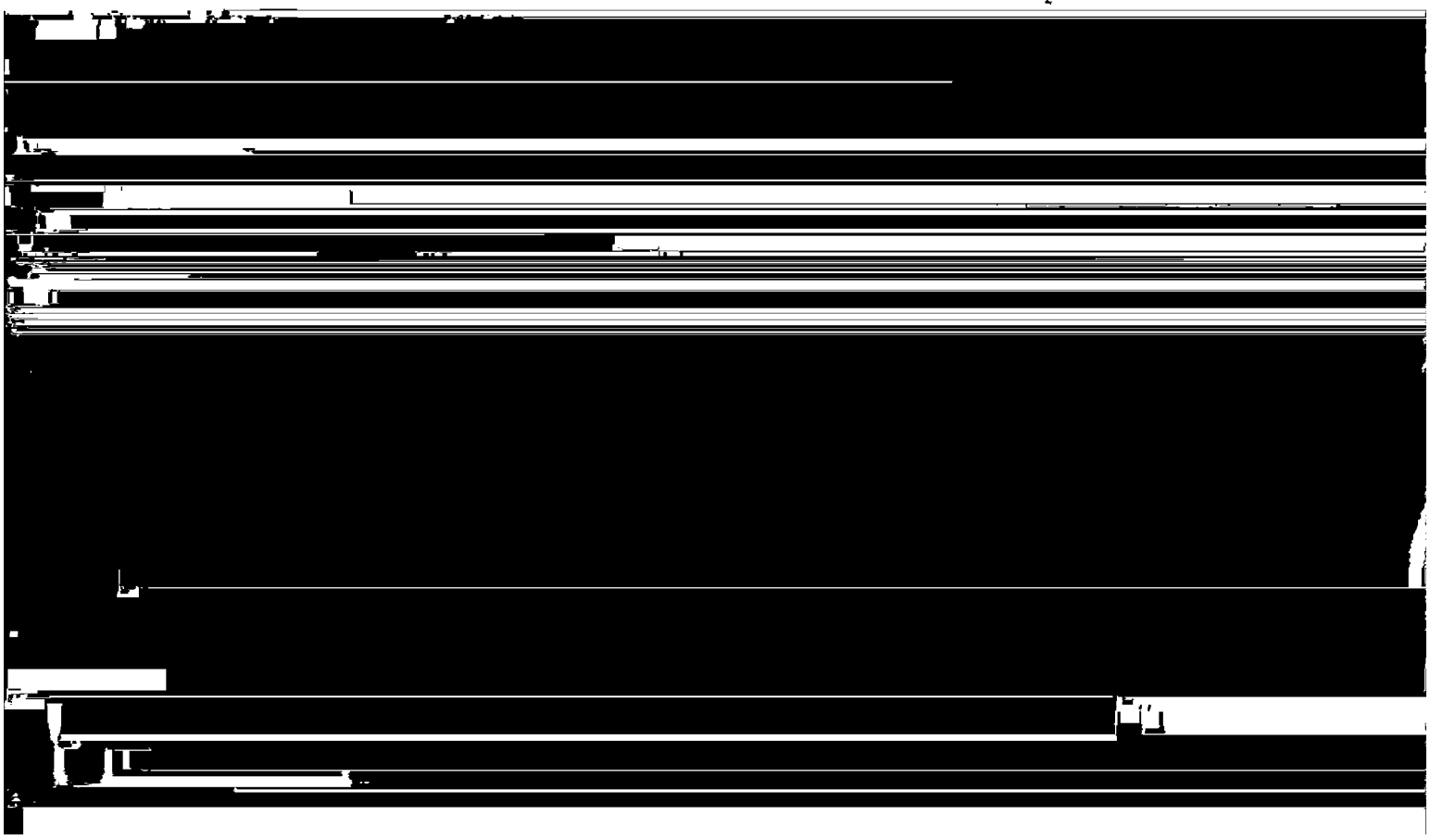
The area covered in this report is in the vicinity of Thorne Island. The sheets covered are T-12310, T-12311, T-12312, T-12313, T-12401, T-12402 and T-12403. Only part of T-12404 and none of T-13096 are covered by present photography. Because of inadequate bridging photography and poor placement of control, 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 noth-



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

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

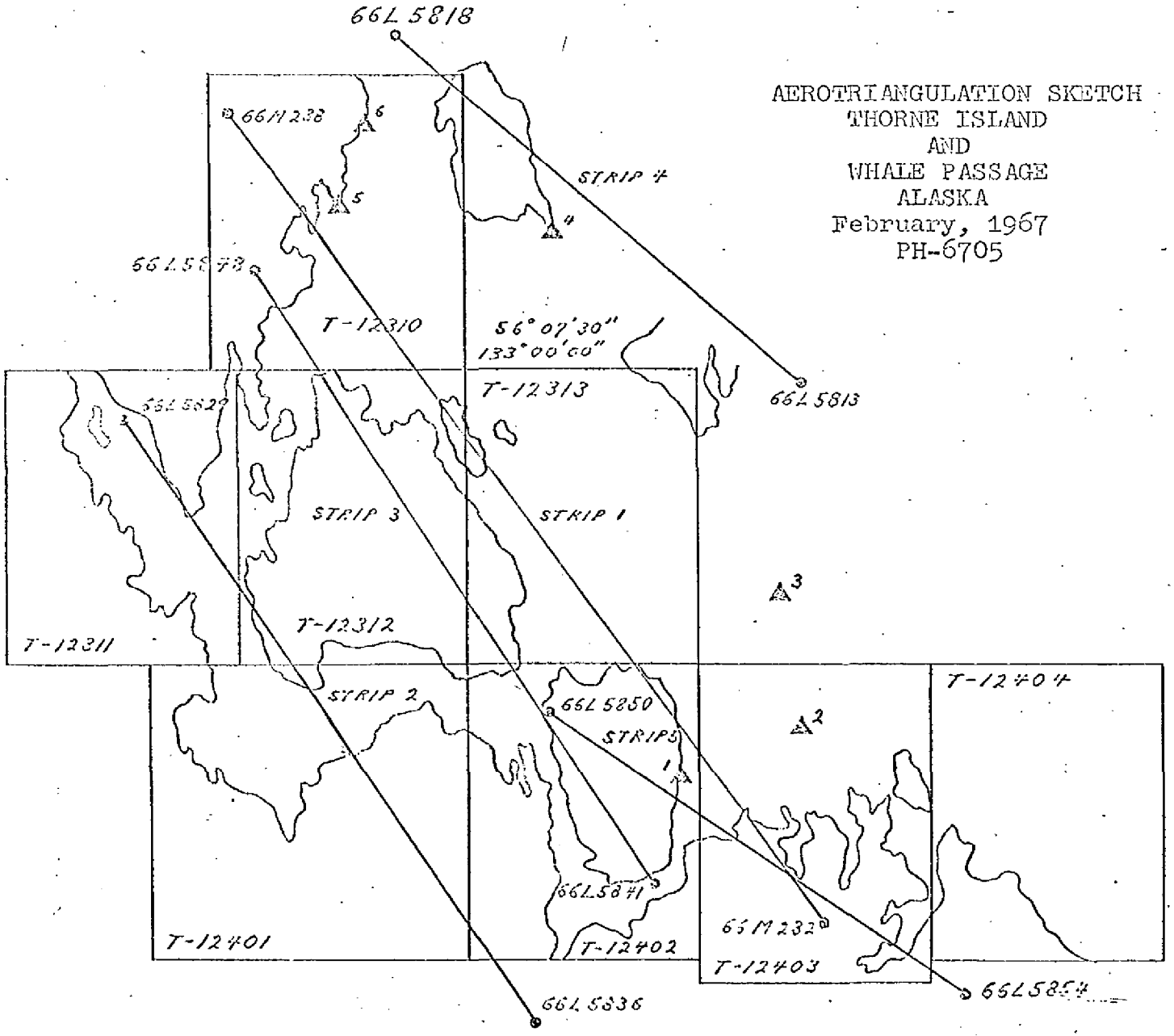
MOSS, 1916

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

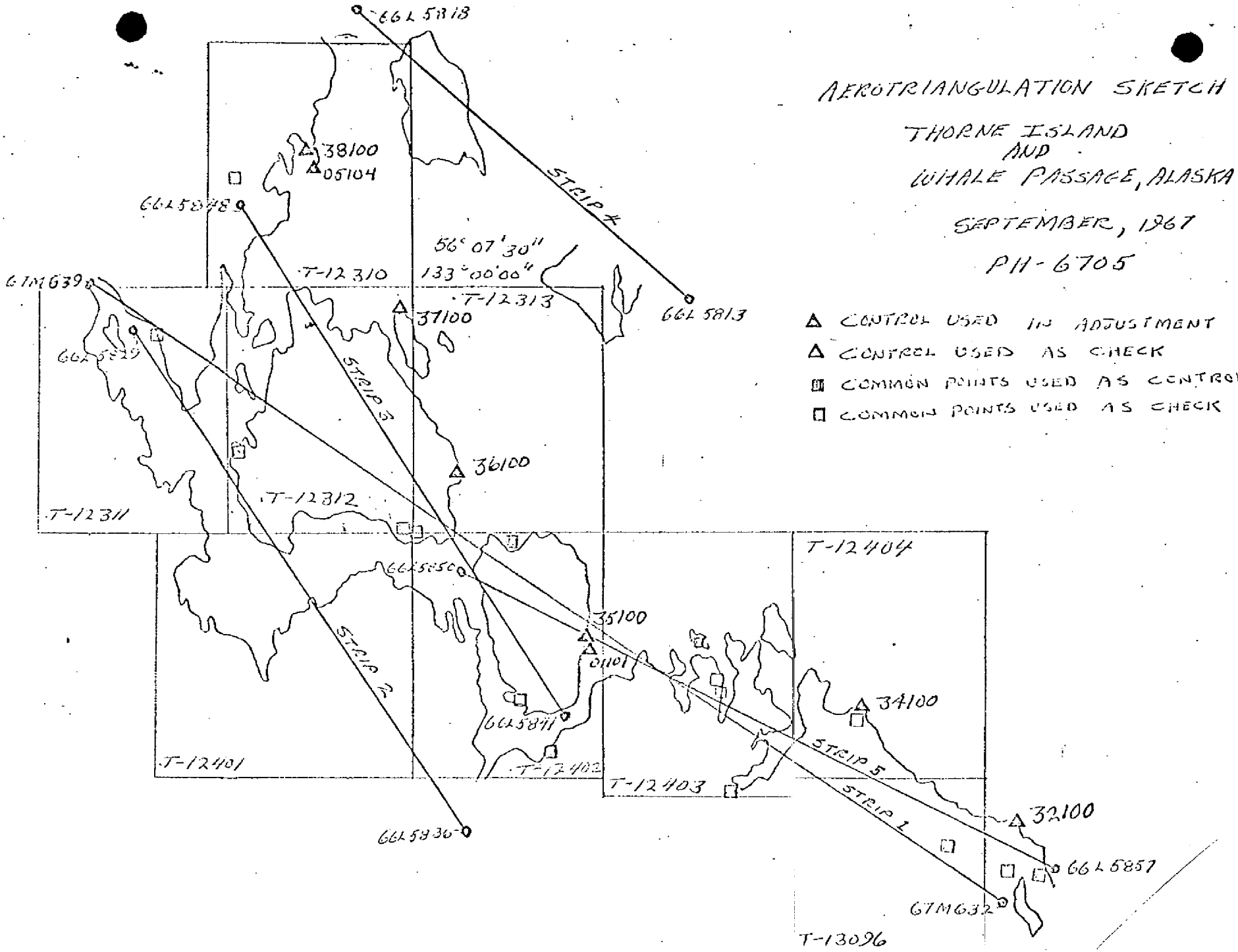
	ΔX	ΔY
5801	-0.3	-0.7
4801	+0.3	+1.7
2802	+0.4	-1.5
2803	+3.8	+4.8
1801	+0.2	+0.4

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
66L5818
38100
05104
66L5848
56° 07' 30"
133° 00' 00"
T-12310
T-12313
66L5813
STRIP 4
GTM639
37100
66L5839
STRIP 3
36100
T-12312
T-12311
T-12404
66L5850
35100
01101
STRIP 2
34100
66L5841
T-12401
T-12402
T-12403
STRIP 5
STRIP 1
32100
66L5857
66L5836
GTM632
T-13096

NOAA FORM 76-41
(6-75)

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

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
T-12312	PH-6705	N.A. 1927	Coastal Mapping Division, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET (STATE Alaska, ZONE 1)	GEOGRAPHIC POSITION (φ LATITUDE, λ LONGITUDE)	REMARKS
DAVID, 1967	Form 164 (W.O.)		x= 1,567,512.03 y= 2,820,020.62	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	
			x= y=	φ λ	

COMPUTED BY: A. L. Shands	DATE: 3/23/67	COMPUTATION CHECKED BY: CHB	DATE: 4/3/68
LISTED BY	DATE	LISTING CHECKED BY	DATE
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

6

COMPILATION REPORT
T-12312
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 1967 and applied to the new manuscript, which is classified ADVANCE.

All photographs used to compile this map are listed on NOAA Form 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 field edit data that was obtained for the preliminary manuscript.

36. OFFSHORE DETAILS

Offshore rocks and reefs were mapped from office interpretation of the photographs and field edit data. Discrepancies are noted in "NOTES FOR THE SMOOTH PLOTTER".

T-12312

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.

39. JUNCTIONS

See attached NOAA Form 76-36B, item 5 of this Descriptive 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-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

Jerry L. Hancock

for A. L. Shands
Cartographer

Approved

Jerry L. Hancock

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

ADDENDUM TO COMPILATION REPORT

NOTES FOR THE SMOOTH PLOTTER, PACIFIC MARINE CENTER

T-12312

Project Ph-6705

1. Rock positions indicated on the FIELD EDIT OZALID and not visible on the photographs were not mapped; no fixes were furnished the compiler.

2. See DISCREPANCY OZALID for additional notes.

13

APR 30 1986

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T-12312

Kashevarof Passage

Prince of Wales Island

Thorne Island

Whale Passage

Approved:

Charles E. Harrington

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

REVIEW REPORT
SHORELINE

T-12312

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-4), Alaska, dated 1953, scale 1:63,360.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with contemporary hydrographic surveys H-8945 and H-8946, both field surveyed at 1:10,000 scale in 1967. No significant discrepancies 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. Berry
Chief, Photogrammetric Operations, Rockville

Ronald L. Brewer
Chief, Photogrammetry Branch, Rockville

FORM C&GS-8352
(9-29-931

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. PH-6705, T-12312

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 Revie

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via

[redacted]