T-Ø12313

T-Ø12313

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-12313	1

Job No.

PH-6705

Map Classification

CLASS III, FINAL (PARTIAL FIELD EDIT)

[redacted]

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 TP- 12313

MAP EDITION NO. (1)

MAP CLASS III(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	
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: [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. McNeèl	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	Mar 1968
	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	Mar 1968
*Preliminary aerotriangulation and compilation performed 2/67 & 4/67	CHECKED BY	C. Bishop	Apr 1968
	CONTOURS BY	N.A.	
METHOD: Smooth Draft	CHECKED BY	N.A.	
	HYDRO SUPPORT DATA BY	*A. Shands	Mar 1968
SCALE: 1:10,000	CHECKED BY	C. Bishop	Apr 1968
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY		
6. APPLICATION OF FIELD EDIT DATA	BY	*A. Shands	Jan 1968
(Partial)	CHECKED BY	C. Bishop	Apr 1968
7. COMPILATION SECTION REVIEW (Class III)	BY	C. Bishop	Apr 1968
8. FINAL REVIEW (Class III)	BY	J. Hancock	May 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	J. Hancock	June1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	L Dempsey	Sept. 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	L Dempsey	Sept 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-12313

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
[ ] DAYLIGHT
MERIDIAN: 120th

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
66L(P)5813-5814	Jul.12,1966	13:39	1:30,000	4.6 ft. above MLLW
66L(P)5844-5846	Jul.12,1966	13:54	1:30,000	4.6 ft. above MLLW
66L(C)5919-5921	Jul.12,1966	15:08	1:20,000	4.9 ft. above MLLW
66L(C)5879-5882	Jul.12,1966	14:48	1:20,000	4.6 ft. above MLLW
66L(C)5901-5902	Jul.12,1966	15:03	1:20,000	4.9 ft. above MLLW
66M(C)234-236*	Jul.12,1966		1:60,000	
67M(P)636-637*	May 31,1967		1:60,000	

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-8945	1967	Registered	H-9754	1978	Registered
H-8946	1967	Registered	(See Review Report Item #64)		

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No Survey	No Survey	T-12402	T-12312

REMARKS

NOAA FORM 76-36B
(3-72)

*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-12313

HISTORY OF FIELD OPERATIONS

I. [X] 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 [X] 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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] 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-12313

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		W.L.M.	Apr/May 1967
2. HORIZONTAL CONTROL	RECOVERED BY	L.L.R.	Apr 1967
	ESTABLISHED BY	L.L.R.	Apr 1967
	PRE-MARKED OR IDENTIFIED BY	L.L.R.	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	Hydrographer/field editor	May 1967
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

Paneled

2. VERTICAL CONTROL IDENTIFIED

N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
67M636	BEST, 1916 (Sub. Station paneled)		

3. PHOTO NUMBERS *(Clarification of details)*

66L(P)5843-5846 (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 (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-12313

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.	Apr. 1967	Preliminary Manuscript	April 1967	April 1967
Manuscript recompiled from new bridge data; partial field edit applied	Apr. 1968	Map advanced to Class I; however field edit was incomplete	May 1968	May 1968
Final Review	May 1986	Final Class III Map		

II. LANDMARKS AND AIDS TO NAVIGATION

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

NOAA FORM 76-36D

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


JOB PH-6705

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

T-12313

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 a portion of shoreline along Kashevarof Passage located between Thorne Island and Blashke 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-12313

Compilation of preliminary manuscripts T-12310 thru T-12313,

[redacted]

Field edit for this map was applied at the time of recompilation. The manuscript was advanced to Class I status; however, it should have remained Class III because field edit was not performed in the northeast segment of the sheet.

Final review for this Final Class III map was performed at the Atlantic Marine Center in May 1986. The map was reclassified to final Class III because of the partial field edit accomplished. 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- 12313
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.

[redacted]

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

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

February 15, 1967

21. Area Covered

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

22. Method

Five strips of photography were bridged by analytic aerotriangulation. Strip 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:

FMC HPE

Henry P. Eichert

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

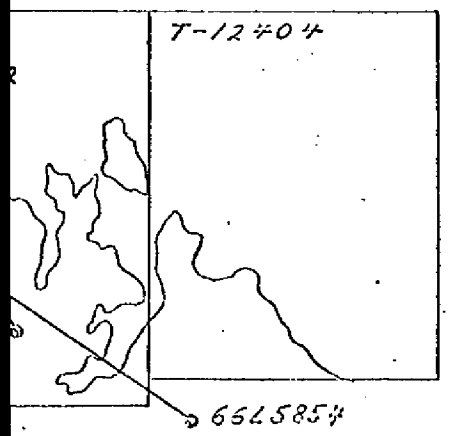
06801	- 0.2	0.0
06802	+ 9.4	-24.1

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

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

5813



28

[redacted]

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.

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

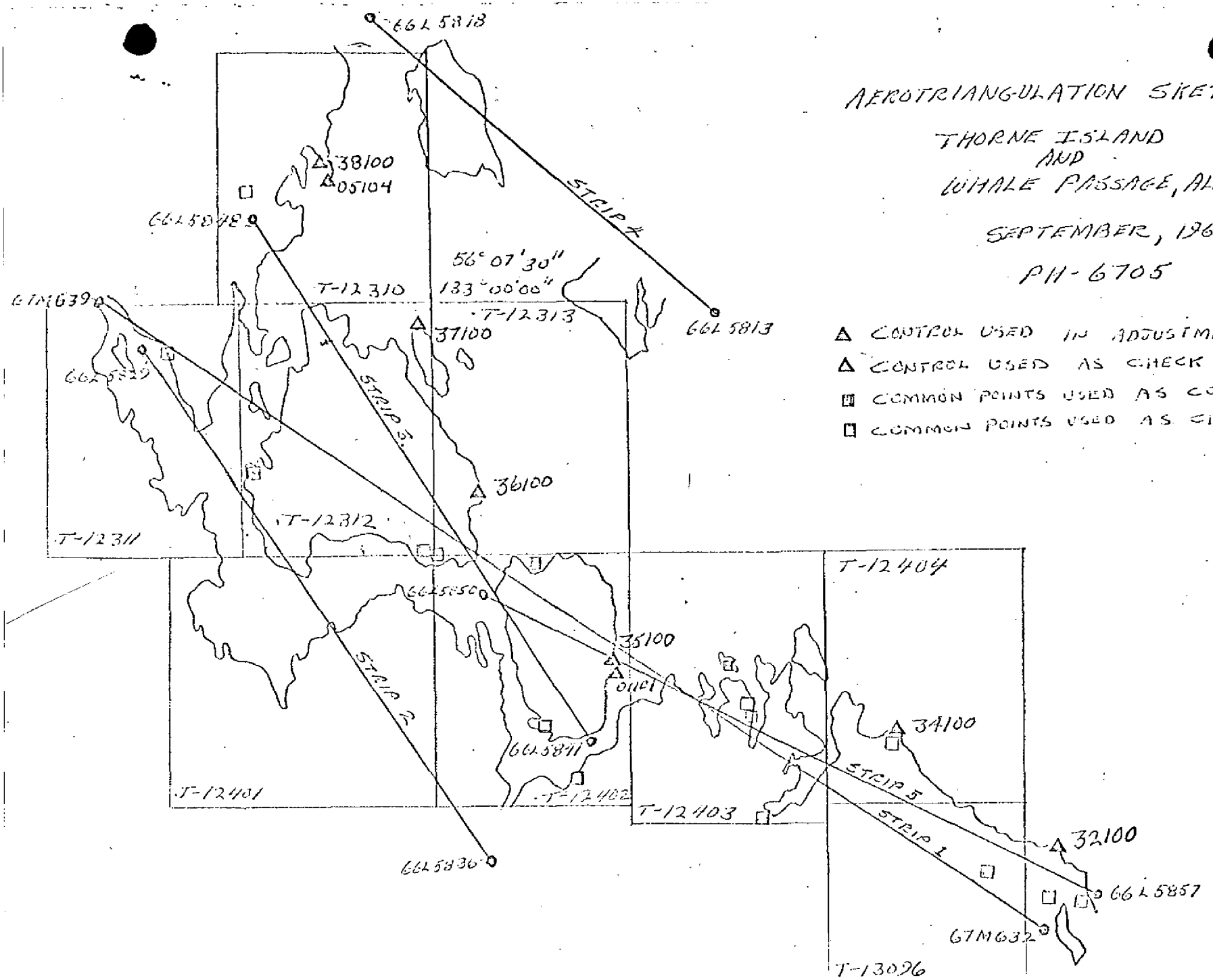
	ΔX	ΔY
5801	-0.3	-0.7
4801	+0.3	+1.7
2802	+0.4	-1.5
2803	+3.8	+4.8
1801	+0.2	+0.4

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
66L5813
56° 07' 30"
133° 00' 00"
T-12310
T-12313
37100
67M639
66L5829
STRIP 4
STRIP 3
36100
T-12312
T-12311
66L5850
35100
66L5811
STRIP 2
T-12401
T-12402
T-12403
T-12404
34100
STRIP 5
STRIP 1
32100
66L5857
67M632
66L5836
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-12313	PH-6705	N.A. 1927	Coastal Mapping Division, AMC, Norfolk, VA

STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
ERN, 1916	G.P. Vol. 1 pg. 156		x=	φ 56 05 18.311	
			y=	λ 132 59 10.734	
BEST, 1916	G.P. Vol. 1 pg. 156		x=	φ 56 04 33.397	
			y=	λ 132 58 30.548	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
A. C. Rauck, Jr.	3/23/67	LLG	3/29/67
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.

COMPILATION REPORT
T-12313
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

As the compilation photography was taken at a time when the tide was 5 ft. above MLLW, many of the offshore details appearing on this manuscript are shown from the data supplied by the field editor. All rock elevations are supplied by the field editor.

T-12313

37. LANDMARKS AND AIDS

There are no landmarks or aids on this sheet.

38. CONTROL FOR FUTURE SURVEYS

None.

39. JUNCTIONS

Junctions are in agreement with T-12312 to the west and T-12402 to the south. There are no contemporary surveys to the 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-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

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-12313
Project Ph-6705

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

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

1. There are two positions for 5124; one is penciled, the other is printed. See DISCREPANCY OZALID.

2. In vicinity of Signals 211 and 212, locations of rocks on Field Photo 66-L-5843 and the computer position overlay do not agree. Position locations on the overlay are confusing because of over-printing and apparent sextant plotting. Rock data was applied to the positions indicated on the overlay.

3. Position 5117 in different location on Photo 5843 than on overlay; overlay position was used.

4. Dropped positions of Hydro Signals 210, 211, 212, and 216 are shifted slightly from the same positions on the hydrographer;s cronaflex copy of the PRELIMINARY MANUSCRIPT.

5. See notes on DISCREPANCY OZALID.

14

APR 30 1986

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

T -12313

Blashke Islands

Kashevarof Passage

Thorne Island

Whale Passage

Approved:

Charles E. Harrington

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

FIELD EDIT REPORT

Submitted for "rock" on T-12313

OPR-0910-RA-78

T-12402

STEVENSON ISLAND, ALASKA

Thorne Island and Whale Passage

2 Field Units

May 2, 1978 - May 21, 1978

JD (122-141)

51 METHODS

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

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

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

ADEQUACY OF COMPILATION

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

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

53 MAP ACCURACY

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

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

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

1) Five rocks charted approximately 100 meters south of Thorne Island were not seen.

   a) a search was made from a Boston Whaler at a 0' tide state with 10' - 15' visibility in the water. Photograph 66L-5850 shows what could easily be in the location of the five rocks.

2) An islet charted off the southeast tip of Thorne Island is actually submerged at high tide. It lies in a ledge area and is merely a misjudgement of MHWL during office compilation.

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

54 COMMENTS

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

Respectfully submitted,

Marianne Molchan, LTJG
Field Edit Officer

Approved by,

James P. Randall, Captain, NOAA
Commanding Officer

Rock Investigation Hydrographic Report
Whale Passgae AK.

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

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

Charted Rock Position	Source	Reason to Disprove
56°03'36.0" 132°58'24.0"	Chart 17382 1:80,000 scale 11th Ed. Mar. 26,77	Project Inst. OPR-910-RA-78 Field Edit ask to disprove this rock.
56°03'42.0" 132°58'26.0"	T-12402	Believe to be same rock as above. Different charted position.
56°03'48.0" 132°58'33.0" T-12313	Chart 17382 1:80,000 scale 11th Ed. Mar. 26,77	Subm. rock approx. 250m NE of the above charted rocks.

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

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

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

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

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

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

REVIEW REPORT
SHORELINE

T-12313

61 - GENERAL STATEMENT

Final review for this final Class III 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-8945 and

[redacted]

T-12313

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

FORM C&GS-8352
(3-25-63)

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. PH-6705, T-12313

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

[redacted]