

T-13000

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NOAA FORM 76-35
(6-80)

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

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TR T-13000	
DESCRIPTIVE REPORT - DATA RECORD				☒ ORIGINAL		MAP EDITION NO. (1)	
				☐ RESURVEY		MAP CLASS III (FINAL)	
				☐ REVISED		JOB PH. 6411	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR				TYPE OF SURVEY		JOB PH. _____	
				☐ ORIGINAL		MAP CLASS _____	
				☐ RESURVEY		SURVEY DATES:	
				☐ REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Compilation (Prel. Hydro Support) Dec. 30, 1964				Horizontal Control June 3, 1965			
Memo (Proj. Planning) May 28, 1965				(Premarking)			
Aerotriangulation Sept. 02, 1965							
Aerotriangulation (Amend I) Oct. 11, 1965							
Compilation (Suppl. I) Nov. 09, 1965							
Compilation (Amend I) Feb. 07, 1966							
Aerotriangulation Nov. 08, 1966							
Compilation (Amend II) Jan. 09, 1967							
Compilation (Suppl II) Feb. 07, 1972							
II. DATUMS							
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: ☒ MEAN HIGH-WATER				OTHER (Specify)			
☐ MEAN LOW-WATER							
☐ MEAN LOWER LOW-WATER							
☐ MEAN SEA LEVEL							
3. MAP PROJECTION				4. GRID(S)			
Polyconic Projection				STATE Alaska		ZONE 3	
5. SCALE 1:10,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				W. Heinbaugh		Nov. 1965	
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY				NA			
2. CONTROL AND BRIDGE POINTS PLOTTED BY				A. Roundtree		Nov. 1965	
METHOD: Coradomat CHECKED BY				A. Roundtree		Nov. 1965	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				K. Boyle		May 1966	
COMPILATION CHECKED BY				L. O. Neterer, Jr.		May 1966	
INSTRUMENT: Kelsh				NA			
SCALE: 1:6,000				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				K. Boyle		May 1966	
CHECKED BY				C. Bishop		May 1966	
METHOD: Smooth drafted				NA			
HYDRO SUPPORT DATA BY				K. Boyle		May 1966	
SCALE: 1:10,000 CHECKED BY				C. Bishop		May 1966	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				C. Bishop		May 1966	
6. APPLICATION OF FIELD EDIT DATA BY				None			
CHECKED BY				None			
7. COMPILATION SECTION REVIEW BY				C. Bishop		May 1966	
8. FINAL REVIEW FINAL CLASS III BY				W. T. McLemore/J. Hancock		June 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Aug. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Hawkins		DEC 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. S. KORNSPAN		FEB 1985	

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

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COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L" (L=152.21mm)	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE	
TIDE STAGE REFERENCE ☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY		ZONE Alaska MERIDIAN 150th	☒ STANDARD ☐ DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
65 L(P) 4434 - 4437	7/06/65	09:48	1:30,000	4.1 feet above MLLW Mean Tide Range =9.5 ft.

REMARKS Compilation/bridging photographs based on predicted tide data are referenced to Reference Station Cordova, Alaska and Subordinate Station Snug Corner Cove, Port Fidalgo, Alaska.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the above listed compilation/bridging panchromatic 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-9384	1973	Registered			
H-0636	1976	Registered			

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HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Watkins, Jr.	June 1965
2. HORIZONTAL CONTROL	RECOVERED BY	HLG and JMC
	ESTABLISHED BY	None
	PRE-MARKED OR IDENTIFIED BY	HLG and JMC
3. VERTICAL CONTROL	RECOVERED BY	NA
	ESTABLISHED BY	NA
	PRE-MARKED OR IDENTIFIED BY	NA
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	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED
Premarked (Paneled)2. VERTICAL CONTROL IDENTIFIED
NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
65 L(P) 4437	OUT, 1901 (Paneled direct)		
65 L(P) 4434	REEF, 1942 (Paneled direct)		

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)

2 Forms 152 (CSI Cards), Field Report (2 pages)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-13000
RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	May 1966	Class III manuscript	June 1966	June 1966
Final Review, Class III	June 1984	Final Class III Map No field edit performed		

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: _____

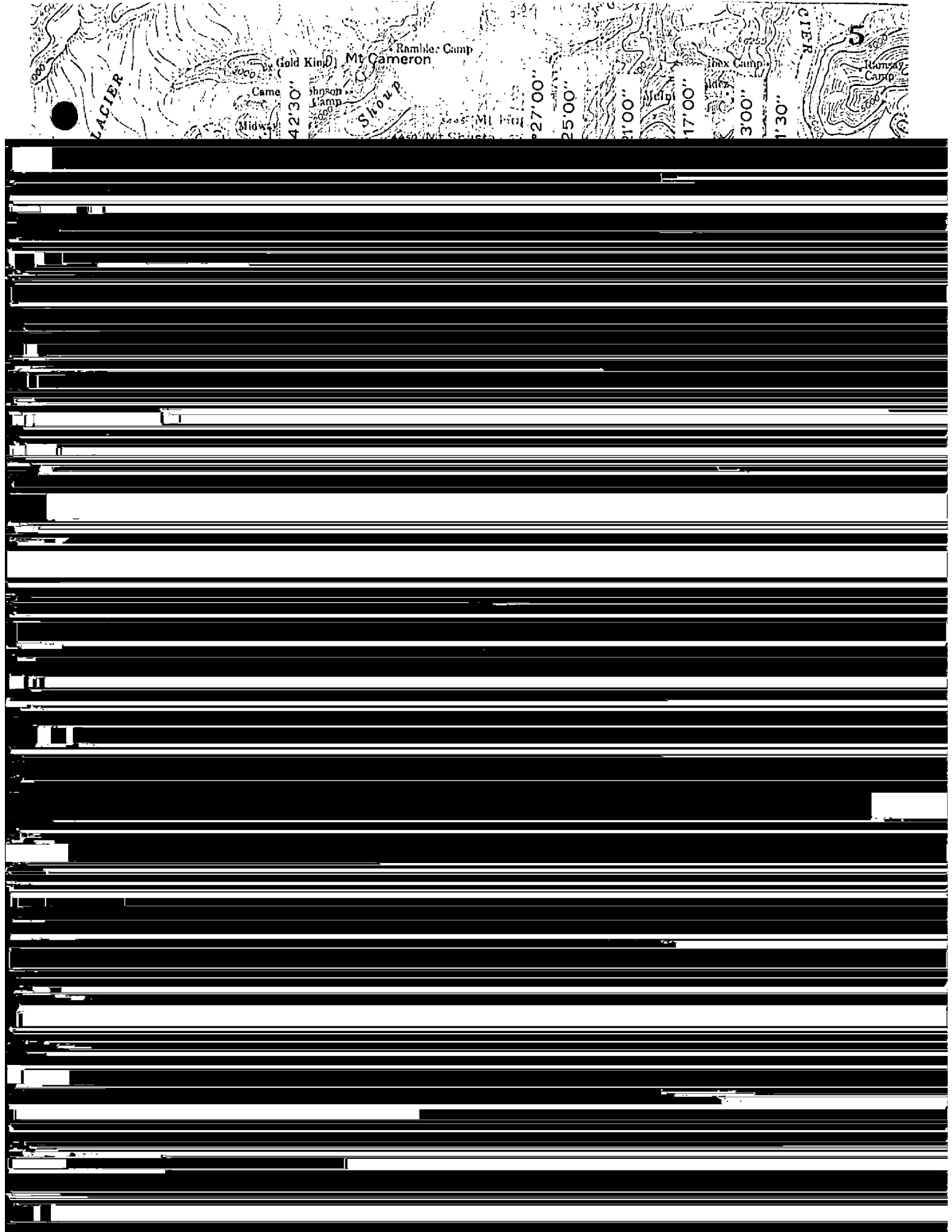
III. FEDERAL RECORDS CENTER DATA

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)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ 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	



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-13000

This 1:10,000 scale final Class III shoreline map is one of seventeen maps that comprise project PH-6411, Valdez Arm, Alaska. The project consists of two 1:20,000, three 1:5,000 and twelve 1:10,000 scale maps. The project originally pertained to the Port Valdez area but was extended south to include the east shore of Valdez Arm and Tatitlek Narrows.

The purpose of this map was to provide shoreline data in support of hydrographic operations.

This map features the shoreline along the western side and much of the southern portion of Bligh Island, all of Reef Island and all but a small portion of West Bay.

Photo coverage for this map was adequately provided by 1:30,000 scale panchromatic and 1:15,000 scale color photographs. All photography was taken July 6, 1965 with the RC-8 (L) camera. The panchromatic photographs were used for aerotriangulation, compilation, and photo-hydro support. The lower altitude color photographs were used to assist the compiler in offshore interpretation.

Field work prior to compilation consisted of the recovery and identification (premarking) of horizontal control necessary for aerotriangulation. Also, the field party was responsible for assisting in obtaining aerial photography. This activity was performed in June/July 1965.

Analytic aerotriangulation was adequately provided by the Washington Science Center in November 3, 1965. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by interpretation of the 1:30,000 scale photographs was performed at the Coastal Mapping Section, Atlantic Marine Center, May 1966. Color contact photographs at 1:15,000 scale were used to assist in the interpretation of offshore features. Photo-hydro support data involving the original Class III manuscript was forwarded to the hydrographer.

Although there was hydrographic activity within the area covered by this map in both 1973 and 1976, there was no field edit performed by either hydrographic party.

Final review was performed at the Atlantic Marine Center June 1984. A Chart Maintenance Print was prepared and forwarded to the Marine Chart Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

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

Project 21423(4)
Valdez, Alaska
June, 1965

All horizontal control stations required for photo control were identified with the exception of CROMBIE, 1941 (T-12656). This station was on a high ridge still covered with considerable snow. Identification would probably have been doubtful. Station FILL (temporary) was established by tellurometer traverse and its substitute stations are identifiable on the same flight line of photographs that would cover CROMBIE. Station PIT (temporary) was determined by triangulation methods. Stations PIT and FILL replaces VALDEZ SOUTHEAST BASE, 1941 and VALDEZ NORTHWEST BASE, 1941.

Station MAS (temporary) (t-12655) was determined by triangulation intersection methods. Station SPIT 2 (temp.) was determined by triangulation methods to replace station SPIT, 1901.

Station HUT 3, 1965 was identified in lieu of station HUT 2 which was reported lost. The unadjusted field position was not available at the time of identification as the geodetic party had only recently occupied the station.

Submitted:

JBW
RM Robert B. Melby

Approved:

John B. Watkins, Jr.
John B. Watkins, Jr.
Chief of Party

Project 21423(11)
Tatilek Narrows, Alaska
June 1965

All horizontal control stations required for photo control were identified and paneled. Two new stations were located by triangulation intersection methods and six by closed loop tellurometer traverse.

Station MAS (temp.) was located and its position is submitted with the Valdez, Alaska field data, project 21423(4). The recovery note for HUT3, 1965 was also submitted with the Valdez field data.

Submitted:

RBm

Robert B. Melby

Approved:

JBW
John B. Watkins, Jr., CDR, C&GS
Comdg., Ship HODGSON

Photogrammetric Plot Report
Tatitlek Narrows, Alaska
Job PH-6411

21. Area Covered

The project covers the east shore of Valdez Arm and all of Tatitlek Narrows area. The T-sheets in this area are: T-12991 through 12999 and T-13000 through T-13002.

22. Method

Six bridges were run on the stereoplanigraphs and adjusted by IBM 1620 methods. All tie points between strips were averaged. Tie points were also established in the area of Port Valdez Bay to be bridged at a later date.

23. Adequacy of Control

The premarked control provided was adequate with the exception



26. Plotting Constants

Plotting constants for 1:10,000 scale manuscripts were provided for all bridge points.

27. Ratios

Ratios for 1:10,000 scale photography were provided for all strips.

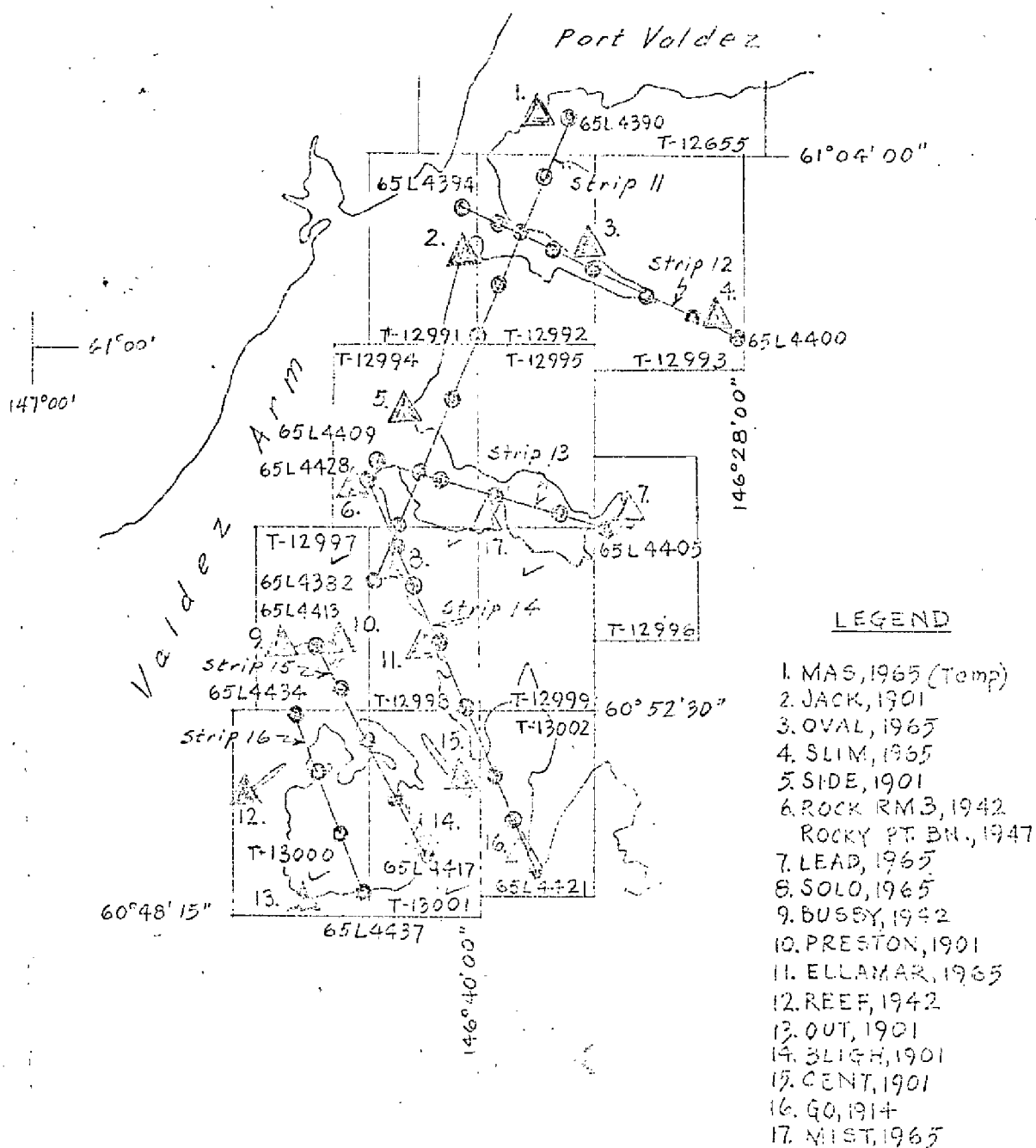
Submitted by:

Wallace Heinbaugh
Wallace Heinbaugh

Approved by:

November 3, 1965

John D. Perrow, Jr.
John D. Perrow, Jr.



TATILEK NARROWS, ALASKA

PH-6411

Nov. 1965

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 3	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA	REMARKS	
						ϕ LATITUDE λ LONGITUDE	FORWARD		BACK	
T-13000		PH-6411								
PEAK NO. 88, 1901	/	Quad 60146 Page 11			X=	ϕ 60°51'16.76"			518.8	1338.4
					Y=	λ 146°46'44.26"			668.3	2237.7
OUT, 1901	/	Quad 60146 Page 8			X=	ϕ 60°48'22.829"			706.6	1150.5
					Y=	λ 146°47'47.279"			715.0	192.4
REEF, 1942	/	Quad 60146 Page 13			X=	ϕ 60°50'43.926"			1359.6	497.6
					Y=	λ 146°50'36.831"			556.3	350.2
					X=	ϕ				
					Y=	λ				
					X=	ϕ				
					Y=	λ				
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COMPUTED BY K. G. Boyle				DATE 5/19/66	COMPUTATION CHECKED BY L. O. Neterer, Jr.				DATE	5/19/66
LISTED BY				DATE	LISTING CHECKED BY				DATE	
HAND PLOTTING BY				DATE	HAND PLOTTING CHECKED BY				DATE	

COMPILATION REPORT
T-13000

31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. The Kelsh plotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:30,000 scale bridging/compilation panchromatic photographs.

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

32 - CONTROL

Refer to the Photogrammetric Plot Report dated November 3, 1965.

33 - SUPPLEMENTAL DATA

Color contact photographs 65 L(C) 4533 - 4538 and 65 L(C) 4584 - 4586 were provided at 1:15,000 scale to assist in the interpretation of alongshore and offshore detail.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the compilation photographs. Areas labeled foul with rocks were delineated by office interpretation of the photographs and represent areas of dense rocks and/or ledge. Although these foul areas are in close along the shoreline, they do not represent an approximate mean lower low water line.

No mean lower low water line was compiled due to the stage of tide of the compilation photographs being 4.1 feet above mean lower low water.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no charted landmarks or navigational aids within the mapping limits of this manuscript.

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38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated November 3, 1965.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey
Quadrangle: Cordova (D-8), Alaska, dated 1952, scale 1:63,360.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following USC&GS Chart: 8519, 8th
edition, dated May 17, 1965, scale 1:79,291.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by,

Gary L. Hancock

for K. Boyle
Cartographic Aid
May 1966

Approved,

Gary L. Hancock

for Albert C. Rauck, Jr.
Chief, Coastal Mapping Unit, AMC

REVIEW REPORT T-13000
SHORELINE

61. GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in June 1984. For a schedule of the office and field operations, refer to the Summary included in this Descriptive Report.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63. COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following USGS quadrangle: Cordova (C-8), Alaska, dated 1952, 1:63,360 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with registered copies of the following contemporary hydrographic surveys: H-9636, 1:10,000 scale, field surveyed July 1976; and H-9384, 1:10,000 scale, field surveyed July and August 1973.

No field edit of the shoreline map was accomplished by the hydrographer although there were areas common to both hydrographic survey limits. Some of the field nonverified shoreline and alongshore details from the shoreline map were applied to the smooth sheets.

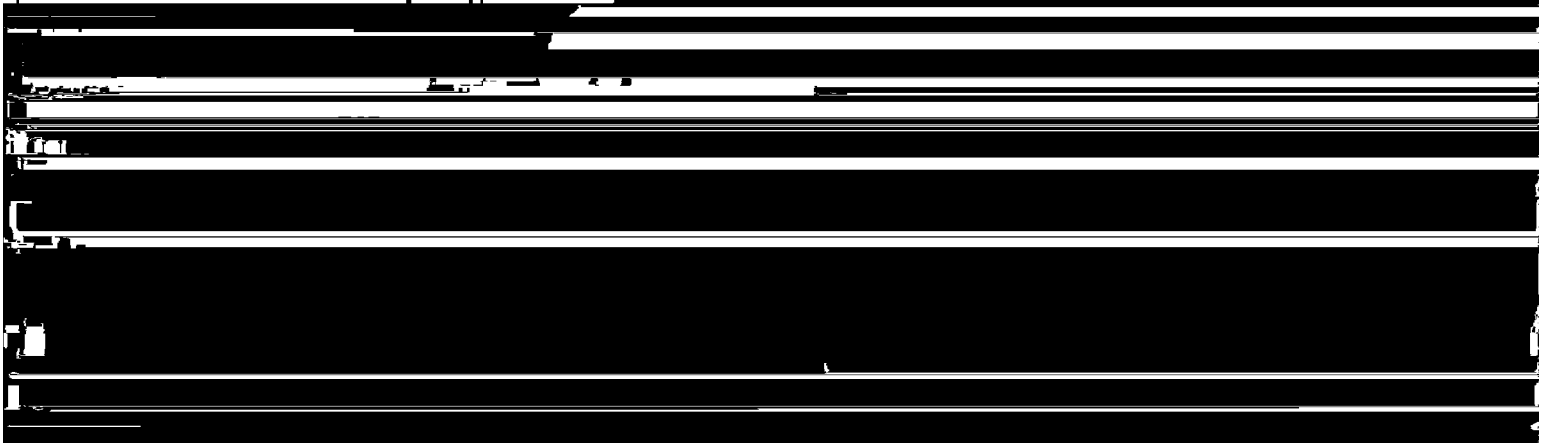
During the original compilation, various shallow, ledge and foul limits were delineated as advisory information to the hydrographer. Since this map was not field edited, many of those areas were removed from the manuscript during final review. Foul areas were retained, however, where the compilation photographs indicate dense rocks.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart 16708, scale 1:79,291, 16th edition, dated October 3, 1981.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the require-



Approved for forwarding,

Billy H. Barnes

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Robert M. Redkey
Robert M. Redkey
Chief, Photogrammetric Section, Rockville

Ronald K. Brewer
Chief, Photogrammetric Section
Rockville

June 11, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6411 (Valdez Arm - Tatitlek Narrows, Alaska)

~~TP-12300~~

TP-13000 *GKH*

Bligh Island

Port Fidalgo

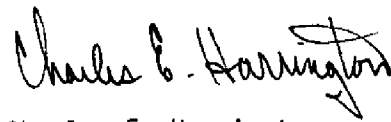
Prince William Sound

Reef Island

Valdez Arm

West Bay

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

