

T 12993

T- 12993

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-12993	Edition No. 1
Job No. PH-6411	
Map Classification FINAL, FIELD EDITED MAP	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality VALDEZ ARM	
Locality JACK BAY	
19 <sub>65</sub> TO 19 <sub>77</sub>	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY <del>XX</del> T-12993	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. 1 (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS FINAL	
				<input type="checkbox"/> REVISED		JOB <del>XX</del> PH-6411	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.				TYPE OF SURVEY		JOB PH- _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Compilation (Pre Hydro Support) Dec. 30, 1964				Horizontal Control June 3, 1965			
Memo (Project Planning) May 28, 1965				(Premarking)			
Aerotriangulation Sept. 2, 1965							
Aerotriangulation (Amend. I) Oct. 11, 1965							
Compilation (Supp. I) Nov. 9, 1965							
Compilation (Amend. I) Feb. 7, 1966							
Aerotriangulation Nov. 8, 1966							
Compilation (Amend. II) Jan. 9, 1967							
Compilation (Supp. II) Feb. 7, 1972							
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER				OTHER (Specify)			
<input type="checkbox"/> MEAN LOW-WATER							
<input checked="" type="checkbox"/> MEAN LOWER LOW-WATER							
<input type="checkbox"/> MEAN SEA LEVEL							
3. MAP PROJECTION Polconic Projection				4. GRID(S)			
				STATE Alaska		ZONE 5	
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							
2. CONTROL AND BRIDGE POINTS PLOTTED BY				A. Roundtree		Nov. 1965	
METHOD: Coradomat CHECKED BY							
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				F. Margiotta		Mar. 1972	
COMPILATION CHECKED BY				R. White		Mar. 1972	
INSTRUMENT: Wild B-8				NA			
SCALE: 1:15,000				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				L. Graves		Apr. 1972	
CHECKED BY				R. Pate		Apr. 1972	
METHOD: Smooth drafted				NA			
CHECKED BY				NA			
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				L. Graves		Apr. 1972	
CHECKED BY				R. Pate		Apr. 1972	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R. Pate		Apr. 1972	
6. APPLICATION OF FIELD EDIT DATA BY				L. Neterer		Nov. 1977	
CHECKED BY				J. Byrd		Jan. 1978	
7. COMPILATION SECTION REVIEW BY				J. Byrd		Jan. 1978	
8. FINAL REVIEW BY				W. Mclemore / J. Hancock		July 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Aug. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Hawkins		SEP 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 SURVEYT-12993  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L" (L=152.21 MM)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
65 L(P)4396 - 4399	July 6, 1965	09:20	1:30,000	4.9 feet above MLLW	
Mean Tide Range = 9.6ft.					

REMARKS Photographs based on predicted tide data are referenced to Reference Station Cordova, Alaska and subordinate station Jack Bay, Alaska.

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

The Mean High Water Line was compiled from office interpretation of the above listed 1:30,000 scale compilation/bridging panchromatic photographs using stereo instrument methods.

3. SOURCE OF ~~MEAN HIGH-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-9711	1977	Registered			

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
T-12655 (1:20,000)	No Survey	No Survey	T-12992

REMARKS

T-12993

## 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 ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None R. Melby R. Melby
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None 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

Premarked

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
65L(P) 4399	SLIM, 1965 (Paneled direct)		
65L(P) 4398	OVAL, 1965 (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 (2pages)

T-12993  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY NOAA Ship Rainier	J. P. Randall	Aug. 1977
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None 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	Marianne Molchan
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
NA		NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

## 3. PHOTO NUMBERS (Clarification of details)

65 L(P) 4397 - 4399

## 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)

Field edit report, Film field edit print

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	April 1972	Class III Superseded	Mar. 1977	April 1972
Field edit applied compilation complete	Jan. 1978	Class I	No record	Dec. 1977
Final Review	July 1984	Final Map		

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

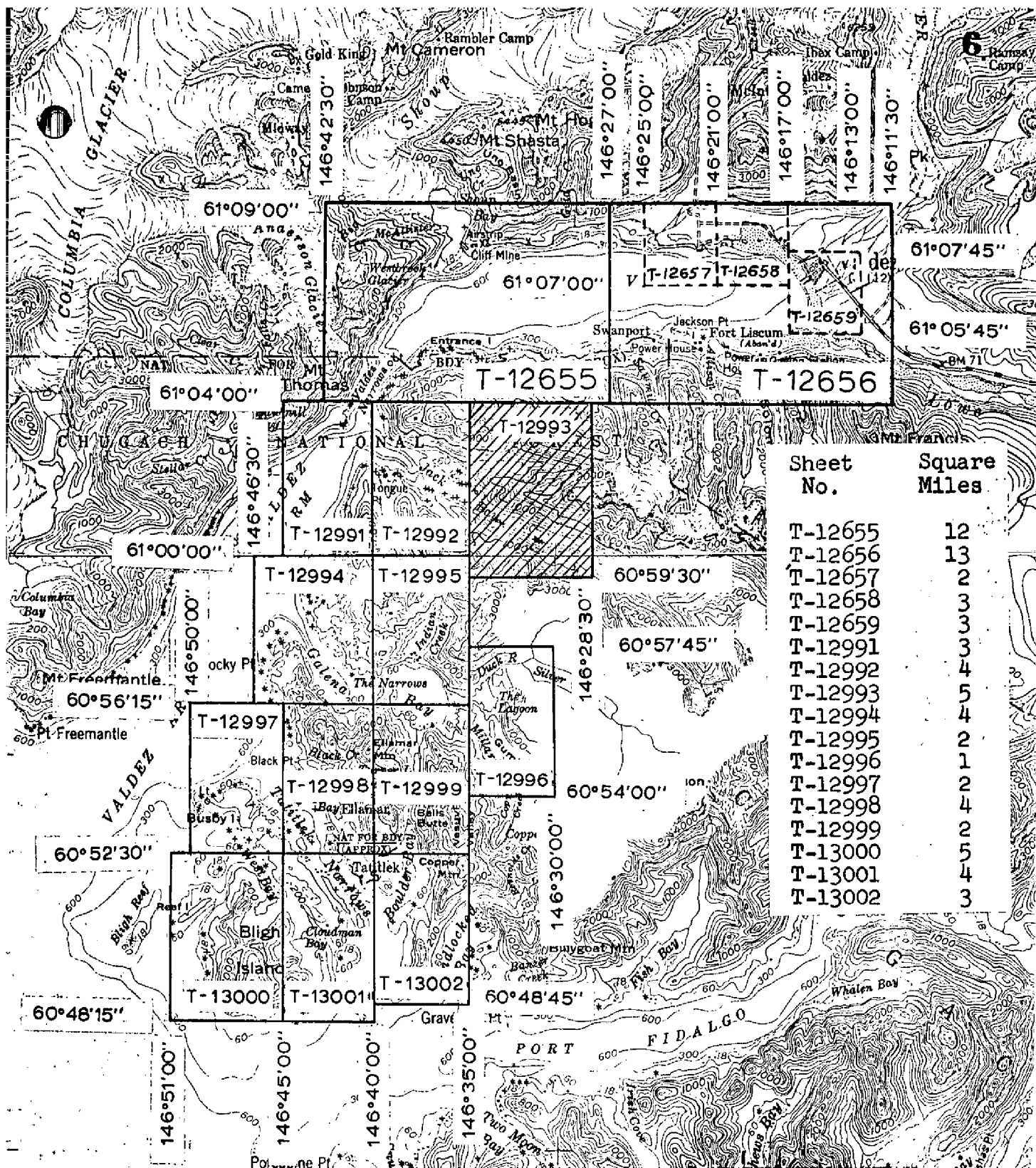
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## 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)

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-6411**  
**SHORELINE MAPPING**  
 1:5,000, 1:10,000 & 1:20,000 SCALE  
**VALDEZ ARM**  
**ALASKA**

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT  
T-12993

This 1:10,000 scale final field edited 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 portrays the shoreline within the eastern half of Jack 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 low altitude color photographs were used to assist the compiler in offshore interpretation.

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

Analytic aerotriangulation was adequately provided by the Washington Science Center 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, April 1972. Color contact photographs at 1:15,000 scale along with two color photographs ratioed to map 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.

In August 1977, a complete field edit was accomplished in conjunction with hydrographic survey H-9711. This activity, performed by ship personnel aboard NOAA Ship RAINIER, involved an inspection of the entire shoreline within the mapping limits. Field edit information was submitted to the original coastal mapping office and applied to the manuscript in January 1978. The manuscript was advanced to a Class I map and a copy was forwarded to the hydrographic processing unit for smooth sheet application.

Final review was performed at the Atlantic Marine Center July 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 field edited map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.



## FIELD INSPECTION

T-12993

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery, establishment 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 of BUSBY, 1942. The panels at this station blended into the background on the black and white photograph and could not be seen. The overhang, and shadows of trees also made it difficult to see Busby Island Lt., 1947, which was in the immediate vicinity of BUSBY, 1942.

Strip #12 was based on a three point solution using stations JACK, 1901, OVAL, 1965 and SLIM, 1965. Stations OVAL and SLIM were established with very slim angles and no means of checking their accuracy was available. Although adjustment held all three stations with small errors of closure, an error may still exist in the area of Jacks Bay.

All additional control held within National Map Accuracy Standards for 1:10,000 scale mapping.

24. Supplemental Data

USGS Quads, Cordova D-8 and Valdez A-8, scale 1:63,360 were used to provide base vertical control for bridging operations.

25. Photography

Photography was adequate in coverage, overlap and definition.

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.

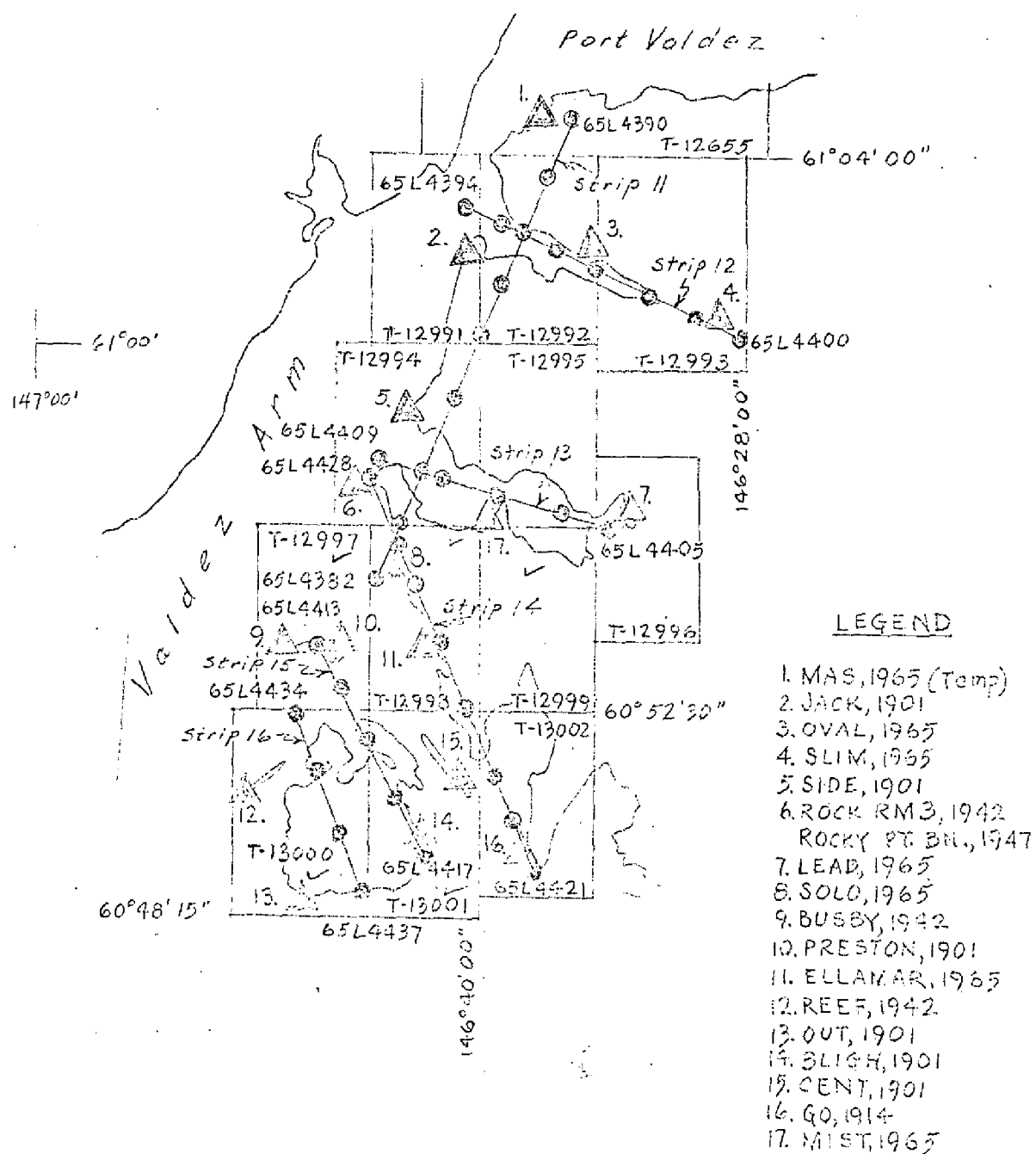
Submitted by:

Wallace Heinbaugh  
Wallace Heinbaugh

Approved by:

November 3, 1965

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



TATITLEK NARROWS, ALASKA

PH-6411

Nov. 1965

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. T-12993	JOB NO. PH-6411	GEODETIC DATUM NA 1927	ORIGINATING ACTIVITY Division, AMC, Norfolk, Virginia		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE	GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE	REMARKS FORWARD BACK
SLIM, 1965	IBM Readout - Bridge		$y=$ 2,558,269.3 $x=$ 412,932.0	$\phi$ $\lambda$	3269.3 (1730.7) 2932.0 (2068.0)
OVAL, 1965	IBM Readout - Bridge		$y=$ 2,563,577.8 $x=$ 403,741.9	$\phi$ $\lambda$	3577.8 (1422.2) 3741.9 (1258.1)
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
			$x=$ $y=$	$\phi$ $\lambda$	
COMPUTED BY A. C. Rauck, Jr.		DATE 2/08/72	COMPUTATION CHECKED BY F. Margiotta	DATE 2/08/72	
LISTED BY		DATE	LISTING CHECKED BY	DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE	

COMPILATION REPORT  
T-12993

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The Wild B-8 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) 4553 - 4559 provided at 1:15,000 scale and color ratio photographs 65 L(C) 4561 - 4562 provided at map scale were used 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 1:30,000 scale compilation photographs. Ledge limits were delineated as an aid to the hydrographer and should be evaluated during field edit.

No mean lower low water line was compiled due to the stage of tide of the compilation photographs being 4.9 feet above mean lower low water.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument and graphic methods as described in item #31. Offshore rocks are to be verified by the field editor.

37 - LANDMARKS AND AIDS

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



T-12993

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.G.S. Quadrangles: Valdez (A-7), Alaska, scale 1:63,360, dated 1960; and Cordova (D-7), Alaska, scale 1:63,360, dated 1952.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following U.S. Coast and Geodetic Survey 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

*for* *Gary L. Hancock*  
L. Graves  
Cartographic Technician  
April 1972

Approved,

*for* *Gary L. Hancock*  
Albert C. Rauck, Jr.  
Chief, Coastal Mapping Section, AMC

ADDENDUM TO THE COMPILATION REPORT  
T-12993

FIELD EDIT

A complete field edit for the map was performed in 1977 in conjunction with hydrographic survey H-9711. This activity included all of Jack Bay and the edit data was adequate to advance the manuscript to Class I. A field edit report, annotated photographs and a field edit print was submitted as field edit data.

A rock and foul area were indicated on photo 65 L(C) 4397 at approximately Latitude  $61^{\circ}01.5'$ , Longitude  $146^{\circ}34.0'$  by the field editor. The rock and foul area were compiled although their existence is very doubtful.

TP-12993  
PH-6411  
OPR-452-RA-77

ALASKA  
VALDEZ ARM  
JACK BAY

1 FIELD UNIT

AUGUST 16, 1977 - AUGUST 21, 1977  
(JD 228 - 233)

## 51 METHODS

Field Edit operations for T-12993 began prior to the commencement of hydrographic survey H-9711. Photo signals for position control were located for the hydrographic survey. Uncharted dangers to navigation were found and added to the boat sheet prior to the commencement of hydrography. Field edit was accomplished from a skiff excluding the confirmation of an observed change to the MHWL at Lat.  $61^{\circ} 01' 05''$  N and Long.  $146^{\circ} 34' 19''$  W.

Heights of rocks noted on the photographs were estimated at close range and in comparison to objects of known elevation. Depths of submerged rocks were determined with a sounding pole. Time notations on each rock are GMT (Local + 9 hours).

All shoreline and topographic notes are annotated on black and white chronapaque photos 65-L-4397, 65-L-4398, and 65-L-4399. Those portions of the photos which include notes are delineated on T-12993 in purple ink. Purple ink is also used on the chronapaque photographs to denote verified features. Corrections or additions to shoreline or topographic features are in red ink and deletions in green ink on both the photograph and the Master Field Edit Ozalid.

The first two days of field edit involved the location of uncharted hazardous areas and photo signals. Each days work was immediately transferred to the boat sheet and the photo signals were positioned and scaled on the Master Photo Signal Ozalid. All shoreline was examined at both high and low tide to help define the mean high water line where it was indefinite as in marsh and shallow coves. Photo signals were built and their positions checked by running a few preliminary survey lines to the head of the bay in Aluminum Launch RA-6. All notes from the matte photographs and paper field edit ozalids were transferred to the chronapaque photographs. Any changes, corrections, additions or deletions were then transferred to the Master Field Edit Ozalid.

## 52 ADEQUACY OF COMPILATION

The compilation of manuscript T-12293 was very good. One minor change in MHWL and a few rocks and rock ledges are noted on the Master Field Edit sheets and are discussed in the following sections. The MLLWL was compiled by hydrographic survey operations and is not discussed in this report.

## 53 MAP ACCURACY

There are three changes noted in red on the Master Field Edit Ozalid. Two areas are labeled "foul with rocks" and were located at low tide

states. Both areas are visible on photos 65-L-4399 and 65-L-4398 and were transferred directly to the Master Field Edit Ozalid from the photograph. A reef at Lat.  $61^{\circ} 00' 38''$  N and Long.  $146^{\circ} 32' 18''$  W was identified on photograph 65-L-4399 complete with time and height data. A rock ledge at Lat.  $61^{\circ} 00' 52''$  N and Long.  $146^{\circ} 33' 26''$  W was also noted on chronapaque photo 65-L-4398 and transferred to the Master Field Edit Ozalid.

A change in MHWL and an islet deletion has been made at Lat.  $61^{\circ} 01' 05''$  N and Long.  $146^{\circ} 34' 21''$  W. The manuscript shows an islet inside a small cove. After walking the shoreline, it was apparent that the islet does not exist and should be deleted. There are two pass points in this area. These points were located in the field and used as positioning control to reconstruct the MHWL on the manuscript. The MHWL falls approximately 10 meters off shore of the easternmost pass point. Both the deletion and the correction have been noted on the Master Field Edit Ozalid. There are no other additions or corrections to the T-sheet. It is recommended that all corrections and changes be added to the T-sheet.

#### RECOMMENDATIONS

NONE

#### PHOTO IDENTIFIED SIGNALS

Field edit operations for PH-6411, T-12993 required identifying and positioning of seventeen photo-located signals and two hydro signals to aid in the positioning control of hydrographic survey operations RA-10-3-77, H-9711, OPR-452-RA-77.

The "Separates Following the Text" on Descriptive Report H-9711 include a table of the method of positioning of each signal, computations of signal G.P.'s and a Master Signal List for T-12993.

Respectfully submitted,

*Marianne Molchan ENS*

Marianne Molchan, ENS  
Field Edit Officer

Approved by:

*James P. Randall*  
James P. Randall, CAPT, NOAA  
Commanding Officer

REVIEW REPORT T-12993  
SHORELINE

61. GENERAL STATEMENT

Final review for this final Class III map was accomplished at the Atlantic Marine Center in July 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 1:63,360 scale U.S.G.S. quadrangles: Valdez (A-7), Alaska, dated 1960, and Cordova (D-7), Alaska, dated 1952.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of contemporary hydrographic survey H-9711, 1:10,000 scale, surveyed 1977.

During hydrographic survey H-9711, a complete field edit was performed within the mapping limits. This field data was applied to the manuscript and a Class I print was submitted to hydrographic processing.

During the original compilation, ledge limits were delineated as advisory information to the hydrographer. These were verified and additional ledge areas added during field edit.

A "rock" and associated foul area identified during field edit at approximately Latitude  $61^{\circ}01.5'$ , Longitude  $146^{\circ}34.0'$  were removed during final review. There is no evidence of the existence of this "rock" or foul area on either the panchromatic or color photographs. Hydrographic survey H-9711 shows 50 fathoms of water in this area. It appears that the field editor indicated a blemish on ratio photo 65 L(C) 4397 as the position of the "rock" but actually observed a rock about 340 yards to the southeast. The "rock" in question was not identified during the primary field edit of this area but was observed three days earlier during the location of photo signals. Hydrographic processing deleted both the rock and the foul area from their survey.

65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Charts 16708, scale 1:79,291, 16th edition, dated October 3, 1981; and 16707, 3rd edition, dated February 27, 1982, 1:40,000 scale.

T-12993

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  
Final Reviewer

Approved for forwarding,

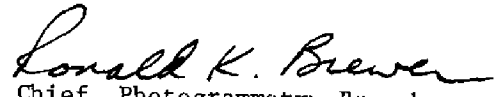


Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved,



Robert H. Bailey  
Chief, Photogrammetric Section, Rockville



Ronald K. Brewer  
Chief, Photogrammetry Branch  
Rockville

June 11, 1984

GEOGRAPHIC NAMES

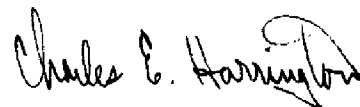
FINAL NAME SHEET

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

TP-12993

Jack Bay

Approved by:



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division



## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

## 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 Rev

[illegible]