

T-13002

T-13002

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
DESCRIPTIVE REPORT	
Map No. T-13002	Edition No. 1
Job No. PH-6411	
Map Classification CLASS III (FINAL) (PARTIAL FIELD EDIT)	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality VALDEZ ARM	
Locality COPPER MOUNTAIN PENINSULA	
19 65 TO 19	
REGISTERED IN ARCHIVES	
DATE	

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

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

- ☒ ORIGINAL
☐ RESURVEY
☐ REVISED

SURVEY ~~NR~~ T-13002

MAP EDITION NO. (1)

MAP CLASS III (FINAL)

JOB ~~NR~~ CM-6411

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Unit, Atlantic
Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

A. Y. Bryson, CDR

LAST PRECEEDING MAP EDITION

TYPE OF SURVEY

- ☐ ORIGINAL
☐ RESURVEY
☐ REVISED

JOB PH- _____

MAP CLASS _____

SURVEY DATES:

19__ TO 19__

I. INSTRUCTIONS DATED

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-13002
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "L" (L=152.21mm)		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 X (P) PANCHROMATIC (I) INFRARED		ZONE Alaska MERIDIAN 150th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
65 L(P) 4421 thru 4424	7/06/65	09:40	1:30,000	4.3 feet above MLLW Mean Tide Range =9.5 ft.	

REMARKS: Compilation/bridging photographs based on predicted tide data are referenced

T-13002

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Watkins, Jr.	6/65
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	R. Melby	6/65
	R. Melby	6/65
	R. Melby	6/65
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 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 Premarked (Paneled)		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
65 L(P) 4421	GO, 1914 (sub pt. paneled)		
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: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> 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 152 (CSI Card), Field Report (2 pages)			

T-13002
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION (Partial)

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY (USC&GS Ship Hodgson)	Comanding Officer	Aug. 1966
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	BY
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

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☒ 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 Paper Field Edit Print, Field Edit Report (remarks)

NOAA FORM 76-36D
(3-72)T-13002
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit.	May 1966	Class III manuscript	June 1966	June 1966
Partial field edit applied. Compilation complete	Nov. 1966	Advanced Class III manuscript	Nov. 1966	Nov. 1966
Final Review, Class III	June 1984	Final Class III Map		

II. LANDMARKS AND AIDS TO NAVIGATION NONE

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

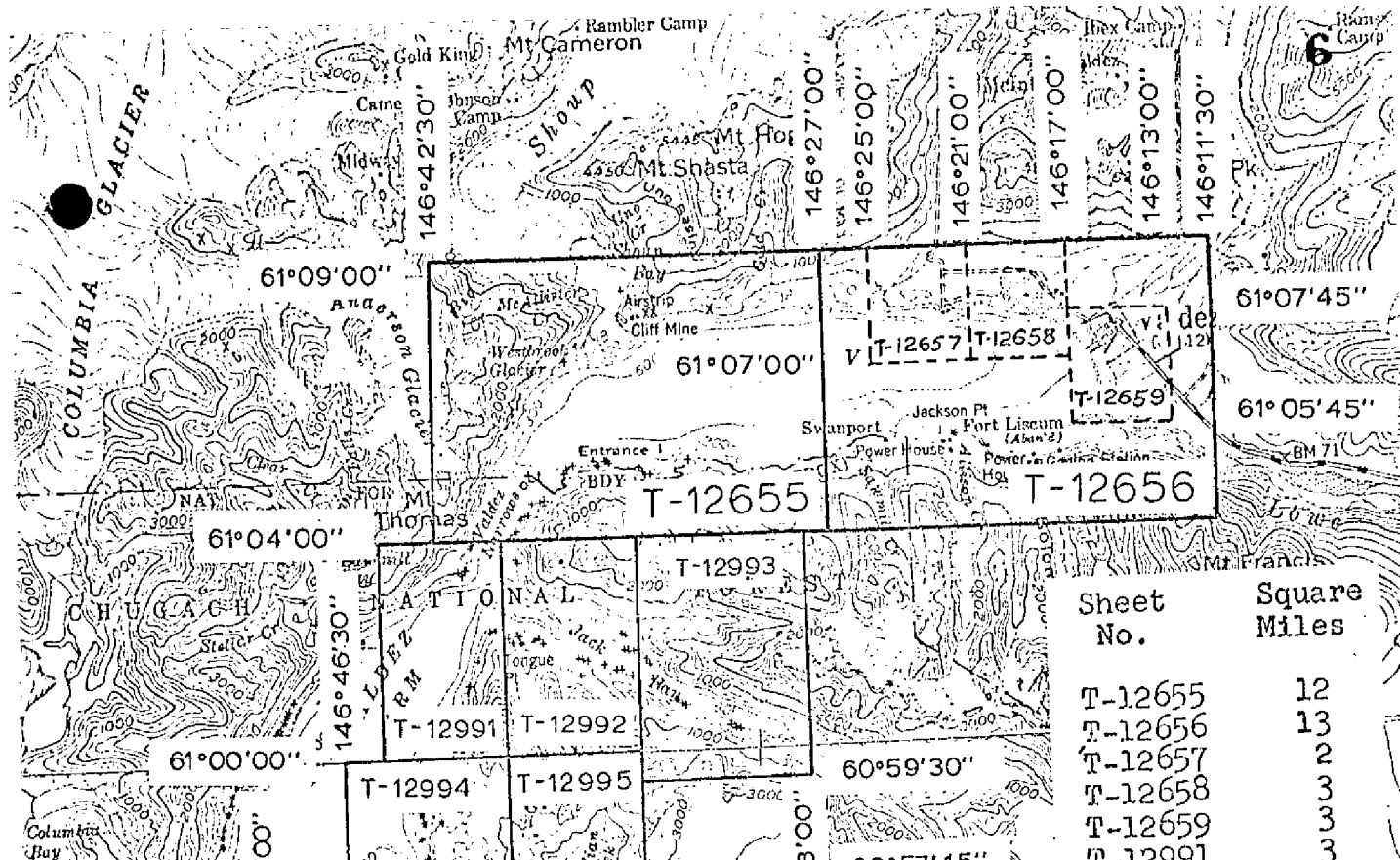
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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)



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
T-13002

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 portrays the southeast limit of Tatitlek Narrows and features the western shoreline of Copper Mountain Peninsula and Boulder 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, 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.

Field edit was conducted August 1966 by the hydrographic party assigned to the USC&GS Ship Hodgson. The area of field edit performed was limited to the parameters of hydrographic survey H-8901. This partial field edit data was returned to the Coastal Mapping office and applied to the manuscript in November 1966. A copy of the advanced Class III manuscript was forwarded to the hydrographic processing unit for smooth sheet application.

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

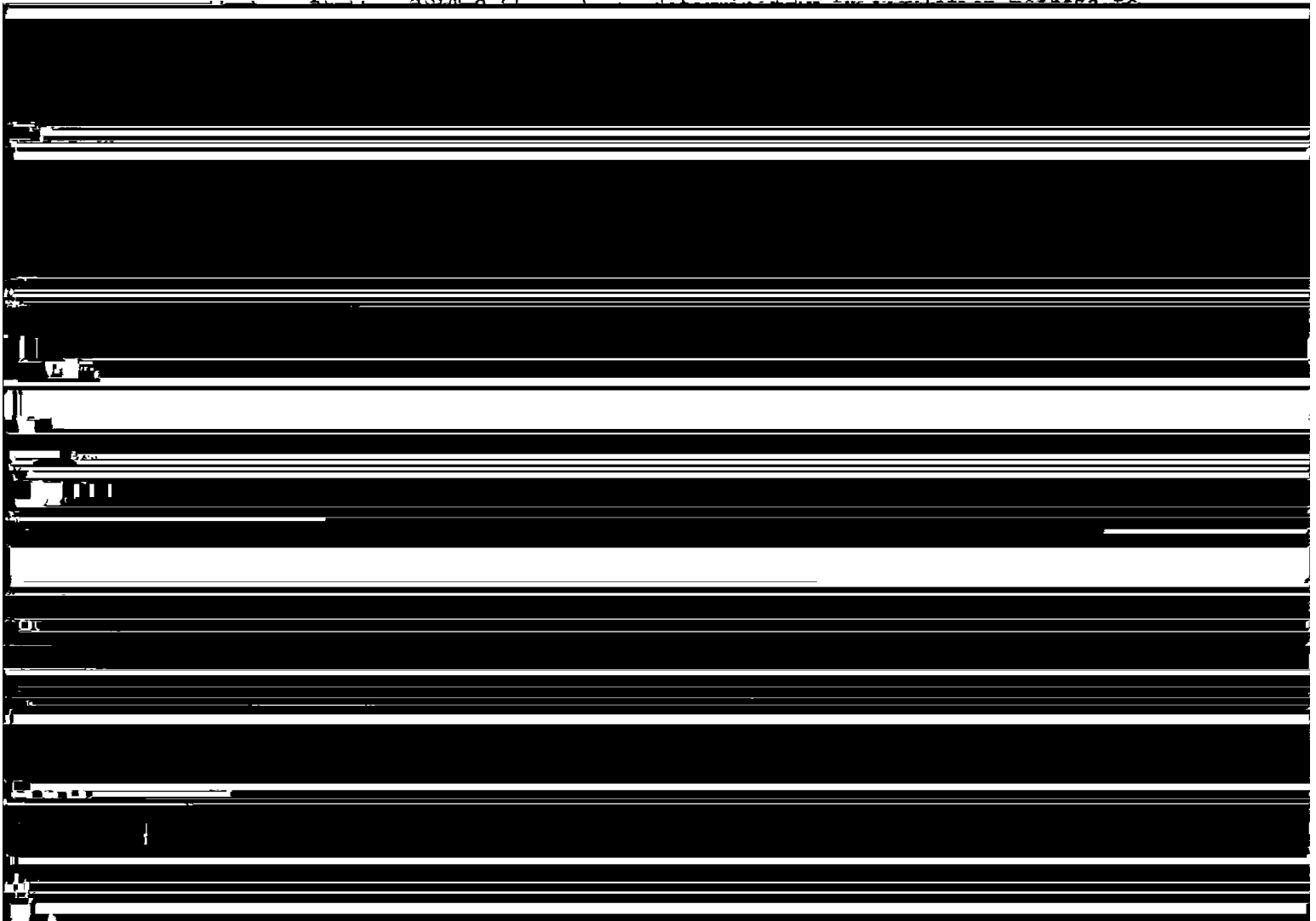
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There was no field inspection prior to compilation. Field work accomplished was limited to the recovery, establishment and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project.

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



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 basic 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.

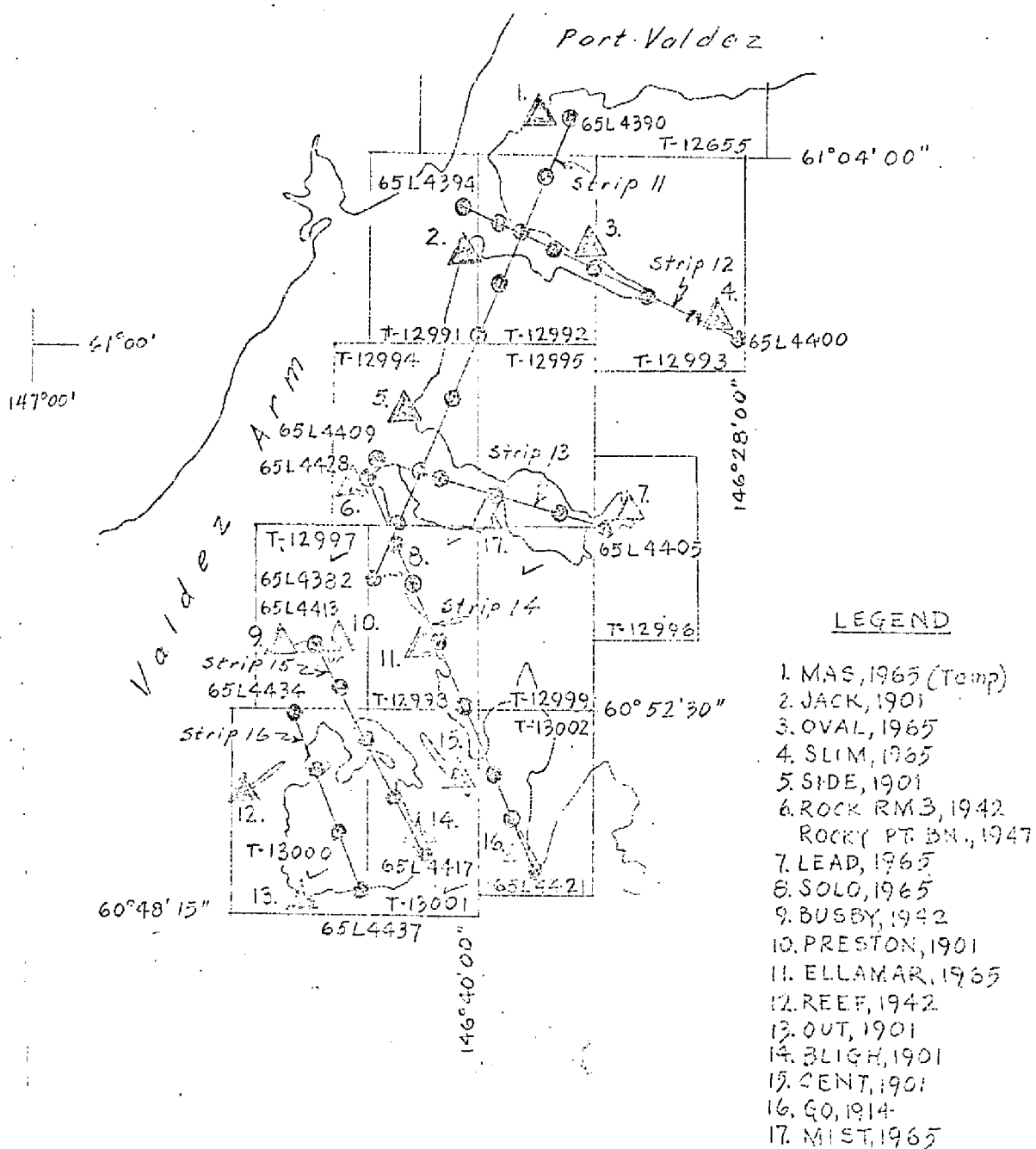
Submitted by:

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.	STATION NAME	JOB NO.	PH-6411		GEODETTIC DATUM		ORIGINATING ACTIVITY		REMARKS	
			NA	1927	STATE	ZONE	Division, AMC, Norfolk, Virginia	Coastal Mapping		
		SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET		GEOGRAPHIC POSITION				
				Alaska	3	ϕ LATITUDE	λ LONGITUDE	FORWARD	BACK	
COPPER, 1901		Quad 60146 P. 2		X= 385,851.62	ϕ			851.62 (4148.38)		
				Y= 2,492,601.69	λ			2601.69 (2398.31)		
COPPER POINT GEOLOGICAL, 1901		Quad 60146 P. 2		X= 385,790.53	ϕ			790.53 (4209.47)		
				Y= 2,492,999.74	λ			2999.74 (2000.26)		
GO, 1914		Quad 60146 P. 5		X= 387,067.01	ϕ			2067.01 (2932.99)		
				Y= 2,491,743.02	λ			1743.02 (3256.98)		
LAND, 1901		Quad 60146 P. 7		X= 388,855.77	ϕ			3855.77 (1144.23)		
				Y= 2,491,843.30	λ			1843.30 (3156.70)		
PEAK NO. 85, 1901		Quad 60146 P. 10		X= 395,627	ϕ			627 (4373)		
				Y= 2,509,785	λ			4785 (215)		
PER, 1914		Quad 60146 P. 2		X= 394,327.08	ϕ			4327.08 (672.92)		
				Y= 2,502,520.90	λ			2520.90 (2479.10)		
LO, 1914		G.P. Vol VI P. 150		X=	ϕ	60 49 29.305		907.0 (950.1)		
				Y=	λ	146 36 52.901		799.4 (107.4)		
				X=	ϕ					
				Y=	λ					
				X=	ϕ					
				Y=	λ					
				X=	ϕ					
				Y=	λ					
COMPUTED BY	LON		DATE 5/19/66	COMPUTATION CHECKED BY		K. G. Boyle		DATE	5/20/66	
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-13002

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) 4605 - 4609 were provided at 1:15,000 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 compilation photographs. Shallow, ledge and foul 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 4.3 feet above MLLW.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument 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.

38 - CONTROL FOR FUTURE SURVEYS

None.

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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; 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,

Gary L. Hancock

for K. Boyle
Cartographic Aid
May 1966

Approved,

Gary L. Hancock

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

ADDENDUM TO THE COMPILATION REPORT - T-13002

Partial field edit was performed on this map in August 1966 in conjunction with hydrographic survey H-8901. The eastern shoreline of Copper Mountain Peninsula, east of Longitude $146^{\circ}37.5'$, was not field edited.

All field edit data was recorded on the field edit paper print. Difficulty was encountered in deciphering the terminology used to record rock heights. Consequently, care was taken to show the most hazardous height that could be evaluated from the field edit print.

Chief, Photogrammetry Division

October 27, 1966

CFS236

Commanding Officer
USC&GS Ship HODGSON

Field edit, project PH-6411

Submitted under separate cover are field edit ozalids and photographs for subject project.

You will note that not all of the area covered by its maps was edited. Only the area within the hydrographic survey project limits was accomplished.

Hydrographic signals were located by photogrammetric methods and transferred from the photographs to the cronoflex theme to the boat sheet. As per project instructions all of these locations were final. Cronoflex with these signals have been retained for use in plotting the smooth sheet.

* It is requested that final shoreline for the smooth sheet, in the area edited, be furnished by January 15, 1967.

John B. Watkins, Jr.

CC: CFS2

* AL

IF YOU CANT MAKE THIS DATE
LET ME KNOW.

AL
11/2/66

Sheet T-13002

Field edit notes are found on the field edit ozalid attached. Field edit was made only within the area of the hydrographic survey, these limits are shown on the ozalid.

The sunken rock from Chart 8519 was found at Lat. 60°50'50.5" Long. 146°38'58.5" and is awash at MLLW. This data from E day, sheet HO-10-2-66.

All control recovery was accomplished during the 1965 field season and appropriate recovery cards submitted at that time.

REVIEW REPORT T-13002
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 U.S.G.S. 1:63,360 scale quadrangles: Cordova (D-7), Alaska, dated 1952, and Cordova (D-8), Alaska, dated 1952.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with a registered copy of contemporary hydrographic survey H-8901, 1:10,000 scale, field surveyed October 1966.

Partial field edit of the shoreline map was accomplished by the hydrographer to that area common to the hydrographic survey limits. Field edit data was applied by the Coastal Mapping Section and a copy of the advanced Class III map was forwarded to the hydrographic processing office for smooth sheet application.

During the original compilation, various shallow, ledge and foul limits were delineated as advisory information to the hydrographer. Those areas not verified during field edit were removed from the manuscript during final review. Also, it was apparent that the terminology used by the field editor to reference rock heights is questionable. However, this data was accepted, as applied to the map and the hydrographic survey because of its minimal effect on the current 1:79,291 chart of the area.

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 requirements for National Standards of Map Accuracy.

Submitted by,

Jerry L. Hancock
Jerry L. Hancock
Final Reviewer

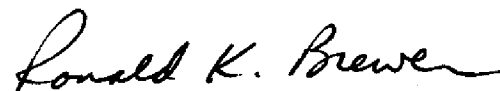
T-13002

Approved for forwarding,



Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,


Chief, Photogrammetric Section, Rockville
Chief, Photogrammetry Branch
Rockville

June 11, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

~~TP-12302~~

TP-13002 *9/84*

Bidarka Point

Boulder Bay

Copper Mountain Peninsula

Landlocked Bay

Port Fidalgo

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

