NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FI	
Map No.	Edition No.
T-12995	1
Job No.	
PH-6411	
Map Classification	
CLASS III (FINAL)	
Type of Survey	
SHORELINE	
LOCALITY	
State	
ALASKA	
General Locality	
VALDEZ ARM	
Locality	
THE NARROWS	
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1965 TO 19	]
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NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY T-12995
SOLD STATE AND ALMOS FRENCE NOWING	ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS III (FINAL)
DESCRIPTIVE REPORT - DATA RECORD	☐ REVISED	6/11
PHOTOGRAMMETRIC OFFICE	<del>                                     </del>	
Coastal Mapping Division, AMC		ING MAP EDITION
Norfolk, VA	TYPE OF SURVEY	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen, CDR	REV:SED	19TO 19
I. INSTRUCTIONS DATED	<u> </u>	
], OFFICE		FIELD
Compilation (Prelin. Hydro Support. Dec. 30,19	64 Horizontal Co	ntrol June 3, 1965.
Memo (Proj. Planning) May 28, 1965	(Premarking	3)
Aerotriangulation Sept. 2, 1965 Aerotriangulation (Amend. I) Oct. 11, 1965		
Compilation (Supp. I) Nov. 9, 1965		
Compilation (Amend I) Feb. 7, 1966		
Compilation (Amend I) Feb. 7, 1966 Aerotriangulation Nov. 8, 1966 Compilation (Amend II) Jan. 9, 1967		
Compilation (Supp. II) Feb. 7, 1972		
II. DATUMS		
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2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL		
3. MAP PROJECTION	STATE 4.	GRID(S)
Polyconic Projection	Alaska	ZONE
5. SCALE	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	
OPERATIONS	NAME	DATE
I. AEROTRIANGULATION BY	W. Heinbaugh	Nov. 1965
METHOD: Stereoplanigraph LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY	· — — — — — — — — — — — — — — — — — — —	March 1966
METHOD: Coradomat CHECKED BY	III. Graber	March 1966 May 1966
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	A. Shands L. Neterer, Jr.	May 1966
INSTRUMENT: Ke1sh CONTOURS BY	<del></del>	1117 1700
scale: 1:6,000 CHECKED BY	271	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. Smith	Feb. 1967
CHECKED BY	<del> </del>	Feb. 1967
METHOD: Smooth drafted		
CHECKED BY HYDRO SUPPORT DATA BY	R. Smith	Feb. 1967
SCALE: 1:10,000 CHECKED BY	L. Graves	Feb. 1967
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	L. Graves	Feb. 1967
6. APPLICATION OF FIELD EDIT DATA	None	
CHECKED BY	None	
7. COMPILATION SECTION REVIEW BY	L. Graves	Feb. 1967
8. FINAL REVIEW FINAL CLASS III BY 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	† <del></del>	July 1984 'Aug. 1984
The second secon	LO . HOHLOUCK	Aug •_ 1984

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10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH

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FEB

Hawkins S. KORNSPAN

(3-72)			T-129	95 NATIONAL OC			TIONAL	
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NOAA FORM 76-36D

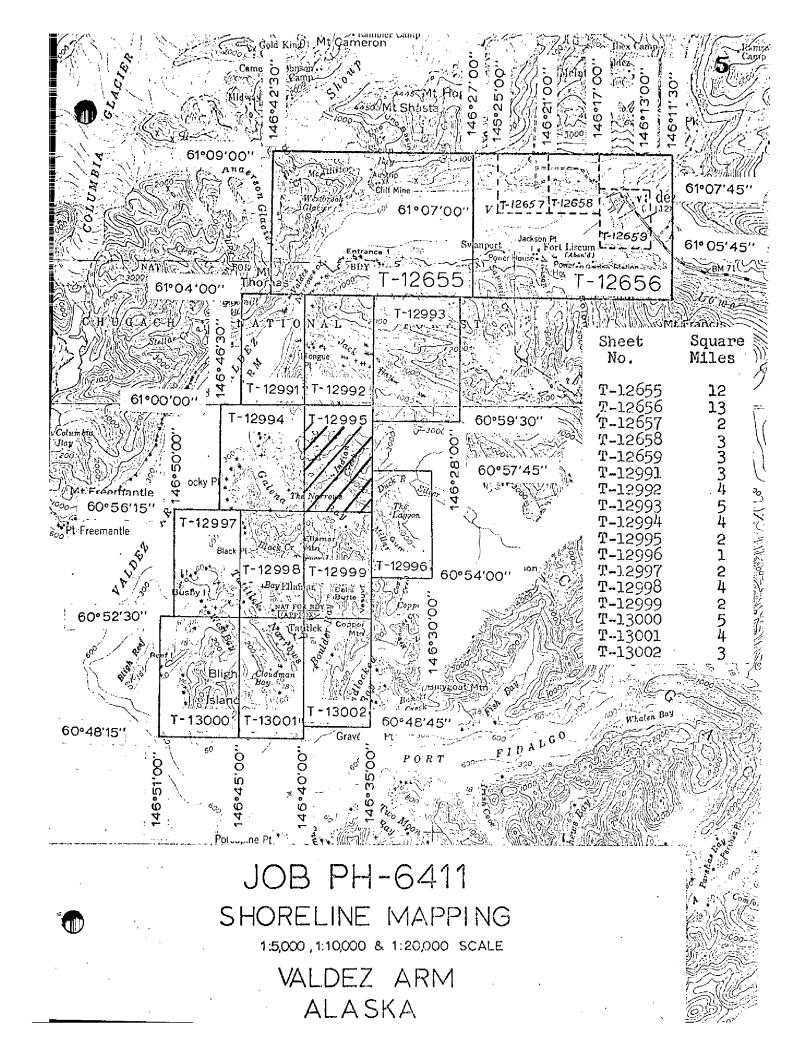
(3-72)

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

T-12995

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RECORD OF SURVEY USE										
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	ARKS AND AIDS TO NAVIGA									
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#### SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT T-12995

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 northeast shoreline of Galena Bay and the passageway from Valdez Arm known as The Narrows.

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, February 1967. 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 not accomplished for this map.

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 Class III map. The original base manuscript and related data were forwarded to the Washington Science Center for final registration.



### FIELD INSPECTION

### T-12995

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:

Robert B. Melby

Approved:

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:

Palm

Robert B. Melby

Approved:

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 the points between strips were averaged. The 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 baisc vertical control for bridging operations.

### 25. Photography

Photography was adequate in coverage, overlap and definition.

#### Plotting Constants 26.

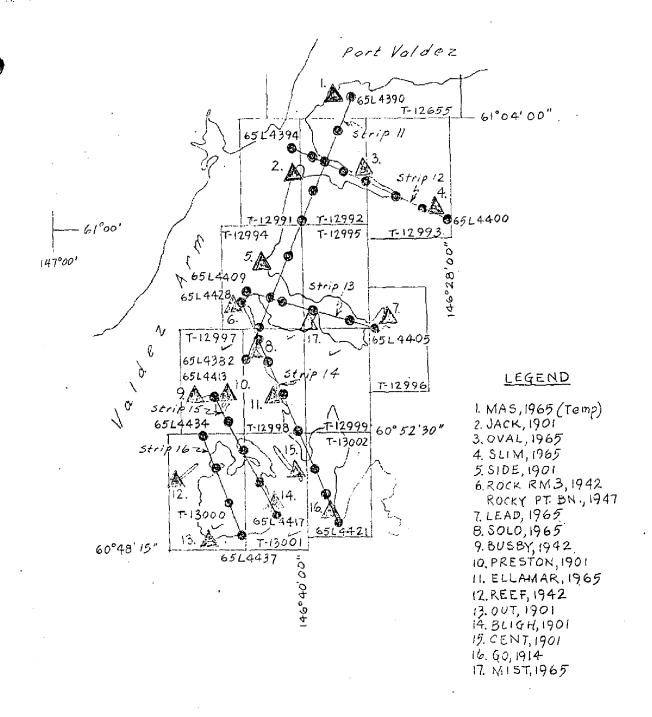
Plotting constants for 1:10,000 scale manuscripts were provided for all bridge points.

## 27. Ratios

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

Submitted by:

Approved by:



TATITLEK NARROWS, ALASKA PH-6411

Nov. 1965

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NOAA FORM 76-41 (6-75)		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RD	DEPARTMENT O	COMMERCE INISTRATION
MAP NO.	JOB NO.	!	GEODETIC DATUM	ORIGINATING ACTIVITY	Coastal	Manning
1-12995	PH-6411	11	NA 1927	Division, AMC	Norfolk	Virginia
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE ALABKA	1	REMA	KS
		NUMBER	ZONE 3	λ LONGITUDE	FORWARD	BACK
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COMPUTED BY R. E. Smith		P2/17/67	COMPUTATION CHECKED BY LLG	97.	DATE 2/17/67	67
LISTED BY		DATE	LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	IS OBSOLETE.		

#### COMPILATION REPORT

#### T-12995

#### 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) 4520-4524 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. 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 4.7 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.

### 39. JUNCTIONS:

See the attached Form 76-36B, Item 5 of the Descriptive Report concerning junctions.

### 40. HORIZONTAL AND VERTICAL ACCURACY:

No statement. Refer to the Photogrammetric Report dated November 3, 1965.

### 46. COMPARISON WITH EXISTING MAPS:

A comparison was made with the following USGS Quadragles: CORDOVA (D-7) and (D-8), ALASKA, scale 1:63,360, dated 1952.

### 47. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with the following National Ocean Survey Chart: 8519, scale 1:79,291, 8th edition, dated May 17, 1965.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

### ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

albert C. Rauck J. For.

Cartographer February 1967

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

#### REVIEW REPORT T-12995 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: Cordova (D-7), Alaska, dated 1952; and Cordova (D-8), Alaska, dated 1952.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

No hydrographic survey was performed in the area common to this map.

#### 65. COMPARISON WITH NAUTICAL CHARTS

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

#### 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,

Juny L. Hancock Jerry L. Hancock Final Reviewer

Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch

Rockville

### GEOGRAPHIC NAMES

### FINAL NAME SHEET

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

TP-12995

Galena Bay

Indian Creek

The Narrows

Approved by:

Charles E. Harrington Chief Geographer

Chief Geographer Nautical Charting Division

#### NAUTICAL CHART 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

CHART	DATE	CARTOGRAPHER	REMARKS
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