

TP-00264

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NOAA FORM 76-35
(6-80)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.

TP-00264

Edition No.

1

Job No.

CM-7211

Map Classification

CLASS III (FINAL), PARTIALLY FIELD EDITED

Type of Survey

SHORELINE

LOCALITY

State

ALASKA

General Locality

VALDEZ ARM, WEST SIDE

Locality

SAWMILL BAY

19 72 TO 19

REGISTERED IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY TP. 00264 MAP EDITION NO. (1) MAP CLASS III (FINAL) JOB PH-CM-7211	
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE A. Y. Bryson, CDR				TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation August 18, 1972 Compilation September 22, 1972				Horizontal Control April 17, 1972 (Premarking)			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION Polyconic Projection				4. GRID(S)			
				STATE Alaska		ZONE 3	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				D. Norman		Sept. 1972	
				N.A.			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				D. Phillips		Sept. 1972	
				D. Phillips		Sept. 1972	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				L. O. Neterer, Jr.		Oct. 1972	
INSTRUMENT: Wild B-8				R. White & A. Shands		Oct. 1972	
SCALE: 1:30,000				N.A.			
				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY				L. O. Neterer, Jr.		Nov. 1972	
				R. White		Nov. 1972	
METHOD: Smooth drafted				N.A.			
				N.A.			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY				L. O. Neterer, Jr.		Nov. 1972	
				R. White		Nov. 1972	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				R. White		Nov. 1972	
6. APPLICATION OF FIELD EDIT DATA (Partial field edit) BY CHECKED BY				W. McLemore, Jr.		Aug. 1984	
				J. Hancock		Sept. 1984	
7. COMPILATION SECTION REVIEW ADVANCED CLASS III BY				W. McLemore, Jr.		Sept. 1984	
8. FINAL REVIEW FINAL CLASS III BY				W. McLemore, Jr. / Hancock		Sept. 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				J. Hancock		Sept. 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Hawkins		DEC 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R.S. KORNSPAN		FEB 1985	

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-9 "M" (M=88.20mm)
Wild RC-8 "E" (E=152.71 mm)TYPES OF PHOTOGRAPHY
LEGEND(C) COLOR
(P) PANCHROMATIC
(I) INFRARED

TIME REFERENCE

ZONE

Alaska

☒ STANDARD

MERIDIAN

150th

☐ DAYLIGHT

TIDE STAGE REFERENCE

☒ PREDICTED TIDES
☐ REFERENCE STATION RECORDS
☐ TIDE CONTROLLED PHOTOGRAPHY

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72 M(P) 1283 - 1287	July 3, 1972	13:04	1:60,000	4.2 ft. above MLLW
72 E(C) 4453 - 4459	July 3, 1972	13:26	1:30,000	5.1 ft. above MLLW
Mean Tide Range = 9.5 ft.				

REMARKS Photographs based on predicted tide data are referenced to Reference Station Cordova, Alaska and Subordinate Station Jackson Cove, Glacier Island, Alaska.

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the above listed 1:60,000 scale compilation/bridging panchromatic photographs using stereo instrument methods and the above listed 1:30,000 scale color photographs ratioed to the 1:20,000 map scale using graphic 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-9422	1974	Registered			
H-9388	1973	Registered			

5. FINAL JUNCTIONS

NORTH No survey	EAST T-12991 (PH-6411) T-12994 (1:10,000) T-12997 (1:10,000)	SOUTH TP-00265 (PH-6411) T-12997 (1:10,000)	WEST No survey
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REMARKS

TP-00264

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1972
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY R. Melby PRE-MARKED OR IDENTIFIED BY L. Riggers & R. Melby	June 1972 June 1972 June 1972
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 <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 (Paneled)2. VERTICAL CONTROL IDENTIFIED
N.A.

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
72 M(P)1283	ELF, 1947 (Paneled direct)		
72 M(P)1286	DEVISH, 1965 (Sub. Pt. paneled)		
72 M(P)1285	FRAM, 1972 (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: ☐ 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)

3 Forms 152 (CSI Cards)

TP-00264

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY (NOAA Ship DAVIDSON)	M. Fleming	May 1974
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	N.A. N.A. N.A.
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 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 ☒ 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)

1 Paper Field Edit Print
1 Field Edit Report

TP-00264
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	Nov. 1972	Class III manuscript	Dec. 15, 1972	Dec. 12, 1972
Partial field edit applied. Compilation complete.	Sept. 1984	Advanced Class III manuscript	None	None
Final Review, Class III	Sept. 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: _____

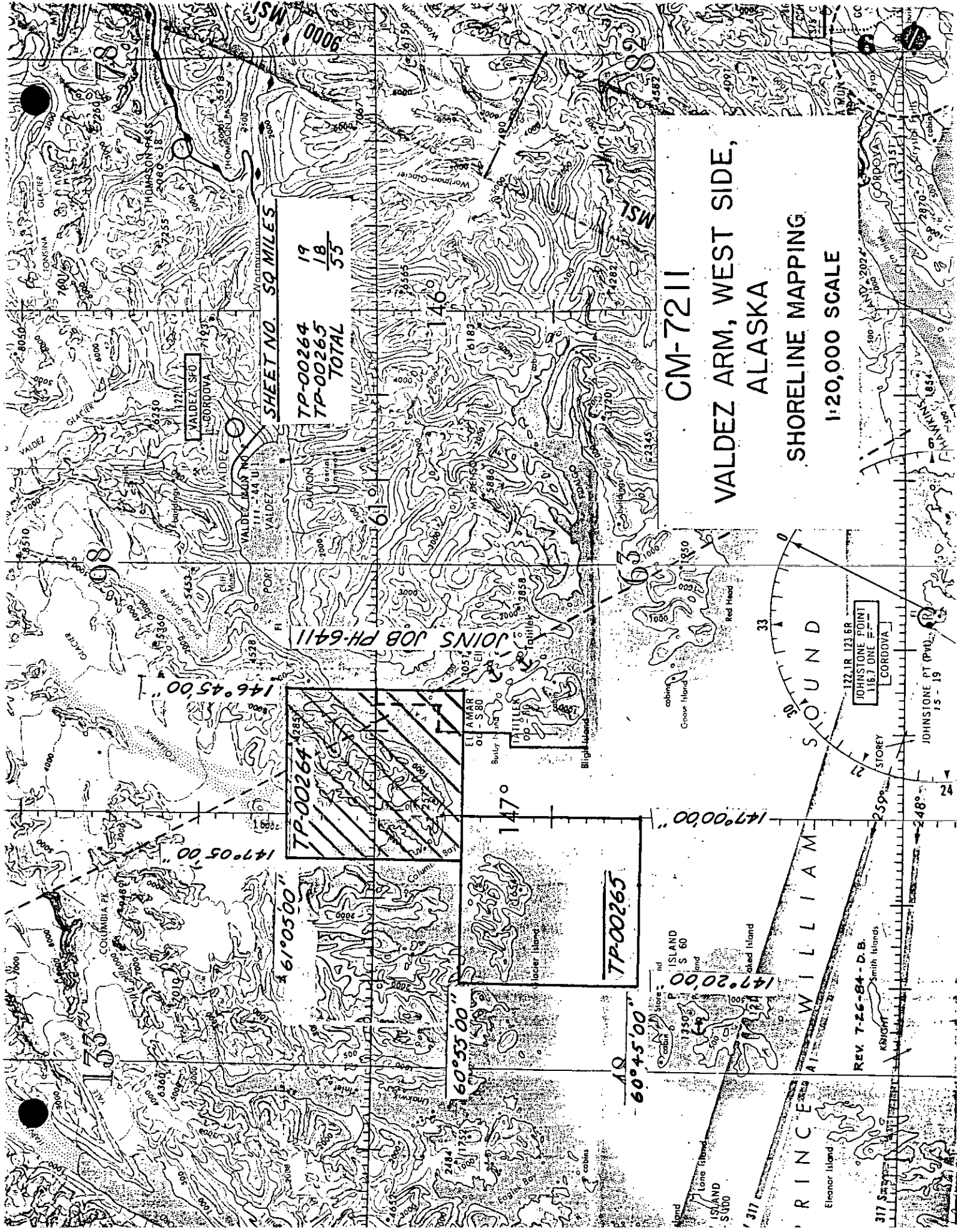
III. FEDERAL RECORDS CENTER DATA

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)

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



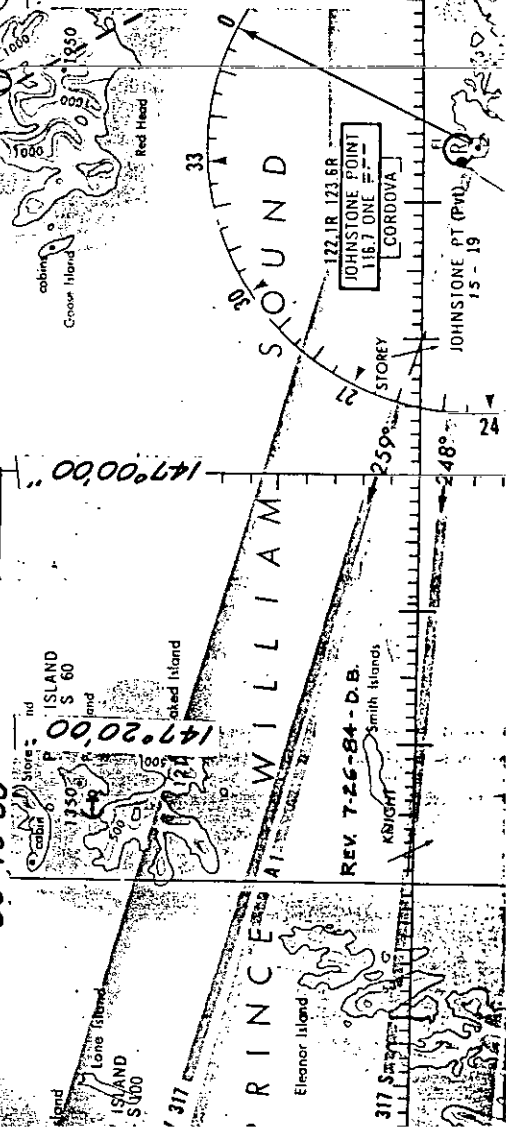
SHEET NO. 50 MILES

TP-00264 19
TP-00265 18
TOTAL 37

CM-7211
VALDEZ ARM, WEST SIDE,
ALASKA
SHORELINE MAPPING
1:20,000 SCALE

TP-00264

TP-00265



REV. 7-26-84-D.B.

317 S

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00264

This 1:20,000 scale final Class III shoreline map is one of two maps that comprise project CM-7211, Valdez Arm, West Side, Alaska. The project originally included a third 1:20,000 scale map (TP-00263) west of TP-00264, but it was canceled because of incomplete photographic coverage.

The purpose of this map was to provide data in support of hydrographic operations and updating of nautical charts.

This map portrays the shoreline along most of the western side of Valdez Arm and the eastern portion of Columbia Bay.

Photo coverage for this map was adequately provided by 1:60,000 scale panchromatic and 1:30,000 scale color photographs taken July 3, 1972. The panchromatic photos were taken with the RC-9 (M) camera and the color photos were taken with the RC-8 (E) camera. The panchromatic photographs were used for aerotriangulation, compilation and photo-hydro support. The color photographs were ratioed to map scale and used in some areas for graphic compilation of shoreline and alongshore detail and hydro support.

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 aerial photography. This activity was performed in June/July 1972.

Analytic aerotriangulation was adequately provided by the Washington Science Center in September 1972. This activity also included ruling the base manuscripts and providing ratio photographs for compilation.

Compilation by interpretation of the mapping photographs was performed at the Coastal Mapping Unit, Atlantic Marine Center in November 1972. Photo-hydro support data involving the original Class III manuscript was forwarded to the hydrographer.

A partial field edit was conducted May 1974 by hydrographic personnel assigned to the NOAA Ship DAVIDSON. The area of edit was restricted to the navigable area survey limits of H-9422. Only a quick check of the shoreline for major discrepancies, and the location of some alongshore and offshore rocks were accomplished within the hydro survey limits. This partial field edit data was returned to the coastal mapping office and applied to the manuscript in August 1984.

Final review was performed at the Atlantic Marine Center September 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

TP-00264

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.

PHOTOGRAMMETRIC PLOT REPORT
Prince William Sound, Alaska
Valdez Arm, West Side
Job CM-7211
September 1972

21. Area Covered

This report pertains to two sheets on the west side of Valdez Arm near the Port of Valdez, Alaska. The sheets covered are TP-00264 and TP-00265 at 1:20,000 scale.

22. Method

One strip (72-M-1280 thru 1288) of 1:60,000 scale panchromatic photography was bridged by analytic aerotriangulation methods. This strip was adjusted to Alaska state plane ground coordinates, zone 3. Points were established for determining ratios of 1:30,000 scale color support photography. Sufficient points for setting models were plotted on the Coradomat.

23. Adequacy of Control

The control was adequate. All points used in the adjustment were unadjusted field positions. Additional control points were plotted on the manuscripts. The positions for YOKE 1947, HEATHER 1947, DICK 1947 and POLE 1947 were from 1960 published data. All other plotted points are from 1970 published data.

24. Supplemental Data

No supplemental data was used.

25. Photography

The photography was adequate.

Respectfully submitted,

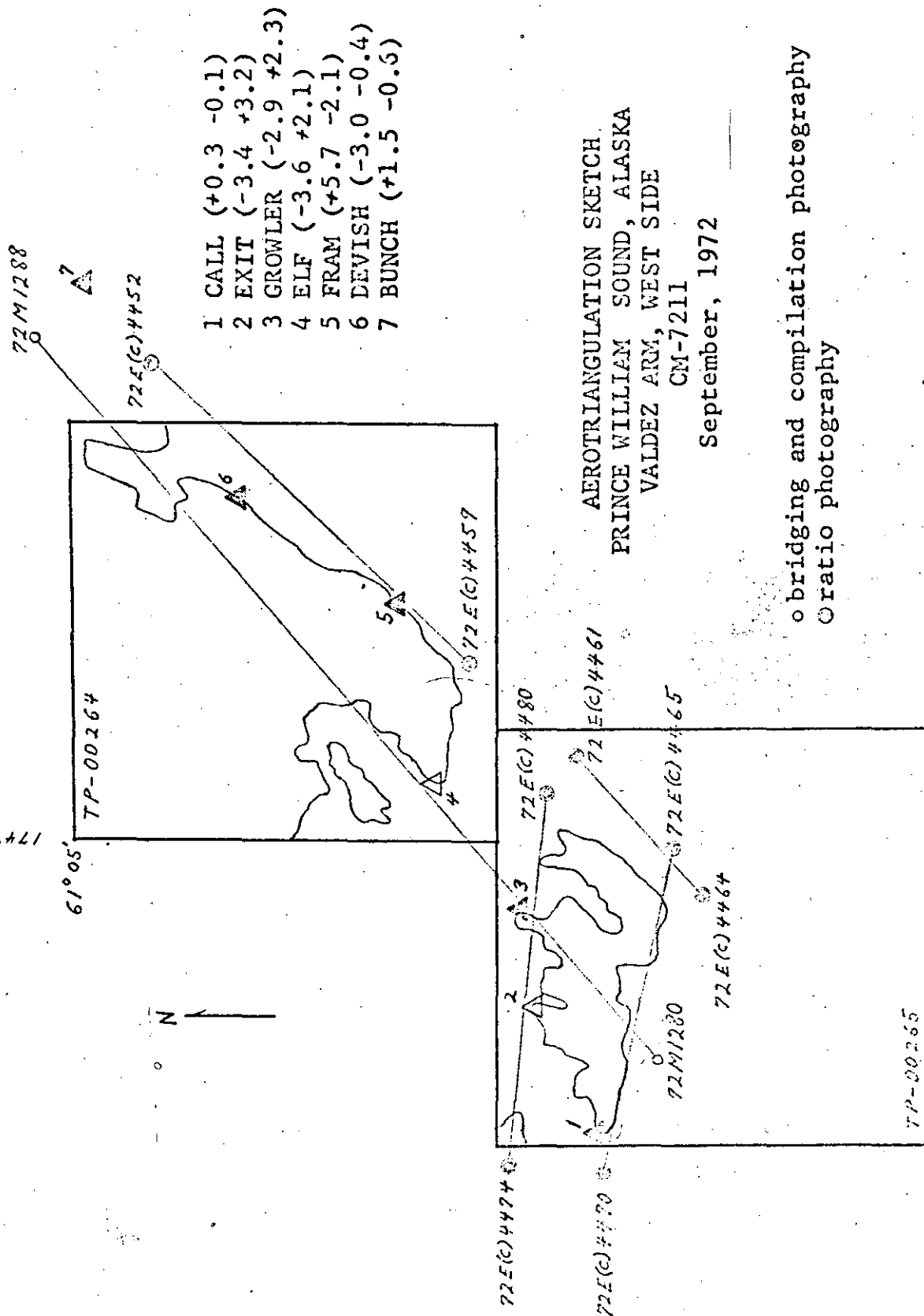
Don O. Norman

Don O. Norman, Cartographer

Approved and forwarded:

John D. Perrow Jr.

John D. Perrow, Jr.
Acting Chief
Aerotriangulation Section



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY		
TP-00264	CM-7211	N.A. 1927	Coastal Mapping Unit, AMC, Norfolk, VA		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 3	GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE	REMARKS
DEVISH, 1965	Field position	86100	X= 358,139.82 Y= 2,567,829.84	ϕ λ	
FRAM, 1972	Field position	84100	X= 337,748.02 Y= 2,539,943.86	ϕ λ	
ELF, 1947	G.P. Vol.6 Pg. 15	83100	X= Y=	ϕ 60°56'38.621" λ 147°03'16.785"	
HATCH, 1947	G.P. Vol.6 Pg. 2	3	X= Y=	ϕ 60°58'14.567" λ 146°51'58.533"	
FREE, 1942	G.P. Vol.6 Pg. 3	5	X= Y=	ϕ 60°56'32.206" λ 146°55'29.775"	
MANTLE, 1942	G.P. Vol.6 Pg. 3	6	X= Y=	ϕ 60°55'51.421" λ 146°58'11.516"	
HEATHER, 1947	G.P. Vol.6 Pg. 16	7	X= Y=	ϕ 60°57'18.861" λ 147°03'42.757"	
STEP, 1942	G.P. Vol.6 Pg. 3	4	X= Y=	ϕ 60°57'25.064" λ 146°53'30.505"	
FLOW, 1901	G.P. Vol.6 Pg. 3	10131	X= Y=	ϕ 60°57'43.965" λ 146°52'48.825"	
			X= Y=	ϕ λ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY	DATE	
LISTED BY A. C. Rauck, Jr.		DATE 10/4/72	LISTING CHECKED BY C. Parker	DATE 10/5/72	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE	

COMPILATION REPORT
TP-00264

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:60,000 scale bridging/compilation panchromatic photographs.

Color photographs at 1:30,000 scale were ratioed (1.50 times) to map scale and used to graphically delineate some shoreline and alongshore detail.

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 September 1972.

33 - SUPPLEMENTAL DATA

None.

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 and alongshore details were compiled by instrument and graphic methods as described in item #31.

No mean lower low water line was compiled due to the stage of tide of the compilation photographs being 4.2 feet and 5.1 feet above mean lower low water.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument and graphic 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.

TP-00264

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5. This map junctions with project PH-6411.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to the Photogrammetric Plot Report dated September 1972.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Anchorage (A-1), Alaska, dated 1960, scale 1:63,360; Valdez (A-8), Alaska, dated 1960, scale 1:63,360; Cordova (D-8), Alaska, dated 1952, scale 1:63,360; and Seward (D-1), Alaska, dated 1952, scale 1:63,360.

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.

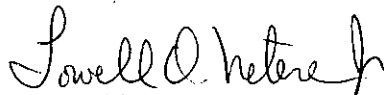
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

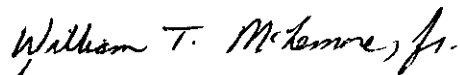
None.

Submitted by,



Lowell O. Neterer, Jr.
Cartographic Technician
November 14, 1972

Approved,



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

ADDENDUM TO THE COMPILATION REPORT TP-00264
CM-7211

Partial field edit was performed for this map in May 1974 in conjunction with Hydrographic Survey H-9422. Since this hydro activity was a navigable area survey, it was not concerned with shoreline detail. The field edit operation involved the location of some alongshore rocks and a quick check of the shoreline for major discrepancies. All field edit data was abstracted in the edit report.

Edit for this map was done with Mini-Ranger, although sextant fixes were given for comparison. The Mini-Ranger arcs failed to define a point, but scribed open triangles in many cases. The sextant fixes were computed and plotted on the original manuscript. No check angles were given for any of the sextant fixes. Because of this, only data that could be verified on the photographs was applied to the manuscript.

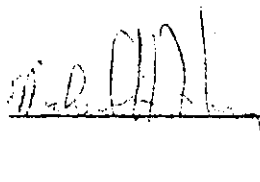
FIELD EDIT REPORT

OPR-999 1974

HYDROGRAPHIC SURVEY # H-9422

Field Number DA-20-1-74

by NOAA Ship DAVIDSON



M.H. Fleming, COMDG