

TP-00311

TP-00311

NOAA FORM 76-35 (6-80) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY DESCRIPTIVE REPORT Partially Field Edited Manuscript	
<i>Map No.</i> TP-00311	<i>Edition No.</i> One
<i>Job No.</i> PH-7017	
<i>Map Classification</i> Final Class III (Partial Field Edit)	
<i>Type of Survey</i> Shoreline	
LOCALITY	
<i>State</i> Alaska	
<i>General Locality</i> Afognak and Kodiak Islands	
<i>Locality</i> Whale Island	
1971 TO 19	
REGISTERED IN ARCHIVES	
DATE	

DESCRIPTIVE REPORT

TP-00311

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TYPE OF SURVEY

SURVEY TP. 00311

DESCRIPTIVE REPORT - DATA RECORD

☒ ORIGINAL

MAP EDITION NO. 1)

☐ RESURVEY

MAP CLASS Class III

☐ REVISED

JOB PH-7017

PHOTOGRAMMETRIC OFFICE

Atlantic Marine Center
Norfolk, Virginia

OFFICER-IN-CHARGE

R. Matsushige, Cdr. NOAA

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

JOB PH-

☐ ORIGINAL

MAP CLASS

☐ RESURVEY

SURVEY DATES:

☐ REVISED

19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation Instr. Nov. 19, 1971
Office Instr. Apr. 17, 1972
Office Instr., Supplement 1 May 11, 1973
Office Instr., Amendment 1 Not Dated

2. FIELD

Field Support Instr. May 03, 1971

II. DATUMS

1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

2. VERTICAL:

☒ MEAN HIGH-WATER
☐ MEAN LOW-WATER
☐ MEAN LOWER LOW-WATER
☐ MEAN SEA LEVEL

OTHER (Specify)

3. MAP PROJECTION

Polyconic

4. GRID(S)

STATE Alaska

ZONE 5

5. SCALE

1:20,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY LANDMARKS AND AIDS BY	R. Kelly	May 1973
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat	PLOTTED BY CHECKED BY	Allen	May 1973
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY CHECKED BY	F. Margiotta	Oct. 1980
INSTRUMENT: Wild B-8 Stereoplotter	CONTOURS BY	L. Neterer, Jr.	Oct. 1980
SCALE: 1:20,000	CHECKED BY	N/A	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	F. Margiotta	Nov. 1980
	CHECKED BY	F. Mauldin	Dec. 1980
METHOD: Smooth Drafted	CONTOURS BY	N/A	
	CHECKED BY	N/A	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	F. Margiotta	Nov. 1980
	CHECKED BY	F. Mauldin	Dec. 1980
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	F. Mauldin	Dec. 1980
6. APPLICATION OF FIELD EDIT DATA (Partial)	BY	R. Mueller	Aug. 1982
	CHECKED BY	J. Massey	Oct. 1982
7. COMPILATION SECTION REVIEW	BY	D. Butler	Apr. 1986
8. FINAL REVIEW	BY	J. Massey	Feb. 1987
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY		
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	E. L. DAUGHERTY	JUN '87

TP-00311
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" (152.71mm FL) Wild RC-9 "M" (88.20mm FL)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
☒ PREDICTED TIDES				Alaska	
☐ REFERENCE STATION RECORDS				MERIDIAN	
☐ TIDE CONTROLLED PHOTOGRAPHY				150TH	
				☒ STANDARD ☐ DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71 M (P) 197-200	07/04/71	11:08	1:60,000	6.6 ft. Above MLLW	
71 E (C) 6364-6365	07/06/71	15:30	1:20,000	4.4 ft. Above MLLW	
71 E (C) 6633-6634	07/10/71	09:02	1:20,000	-1.6 ft. Below MLLW	
71 E (C) 6642-6644	07/10/71	09:10	1:20,000	-1.6 ft. Below MLLW	
71 E (C) 6043-6050	07/04/71	13:15	1:20,000	5.3 ft. Above MLLW	
71 E (C) 5991-5997	07/04/71	12:42	1:20,000	5.8 ft. Above MLLW	
71 E (C) 6361-6363	07/06/71	15:22	1:20,000	4.5 ft. Above MLLW	
71 E (C) 6082	07/04/71	13:35	1:20,000	4.2 ft. Above MLLW	

REMARKS

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high water line was compiled graphically from the 1:20,000-scale photographs listed above. Refer to the Compilation Report, item #31-Delineation, for more information on how the mean high water line was delineated. The Compilation Report is included as part of this Descriptive Report.

3. SOURCE OF [REDACTED] MEAN LOWER LOW-WATER LINE:

No mean lower low water line was 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

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-00302	No Survey	No Survey	TP-00310

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00311
HISTORY OF FIELD OPERATIONSI. ☒ FIELD OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. F. Lanier	June 1971
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	None None None
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 ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ NO INVESTIGATION	None
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

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 ☒ 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)

None

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYTP-00311
HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION				☒ FIELD EDIT OPERATION			
OPERATION		NAME		DATE			
1. CHIEF OF FIELD PARTY		N. C. Austin, CDR, NOAA		June 1981			
2. HORIZONTAL CONTROL		RECOVERED BY		S. Konrad, LTJG, NOAA		June 1981	
		ESTABLISHED BY		None			
		PRE-MARKED OR IDENTIFIED BY		None			
3. VERTICAL CONTROL		RECOVERED BY		None			
		ESTABLISHED BY		None			
		PRE-MARKED OR IDENTIFIED BY		None			
4. LANDMARKS AND AIDS TO NAVIGATION		RECOVERED (Triangulation Stations) BY		S. Konrad, LTJG, NOAA		June 1981	
		LOCATED (Field Methods) BY		None			
		IDENTIFIED BY		None			
5. GEOGRAPHIC NAMES INVESTIGATION		TYPE OF INVESTIGATION		None			
		☐ COMPLETE					
		☐ SPECIFIC NAMES ONLY					
		☒ NO INVESTIGATION					
6. PHOTO INSPECTION		CLARIFICATION OF DETAILS BY		S. Konrad, LTJG, NOAA		June 1981	
7. BOUNDARIES AND LIMITS		SURVEYED OR IDENTIFIED BY		None			
II. SOURCE DATA							
1. HORIZONTAL CONTROL IDENTIFIED				2. VERTICAL CONTROL IDENTIFIED			
None				None			
PHOTO NUMBER	STATION NAME			PHOTO NUMBER	STATION DESIGNATION		
3. PHOTO NUMBERS (Clarification of details)							
71 E (C) 6044 thru 6047, 6049, 6050, 6362 thru 6365, 6642							
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)							
One original Field Edit Report and one copy; One Field Edit Ozalid; One Sounding Volume for TP-00311							

NOAA FORM 76-36D
(3-72)

(Part I)

TP-00311

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

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	Dec. 1980	Class III Manuscript	Dec 18, 1980	Dec 18, 1980
Partial Field Edit applied to Manuscript	Aug. 1982	Class III Manuscript		Nov 09, 1982
		Class III Manuscript		Feb 10, 1984
		Class III Manuscript to Charles Lewis, N/CG 2321 for Marine Charts	July 1984	

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1	Chart Letter #127 (1987)	Feb 27, 1987	For Two (2) Nonfloating Aids to be Charted

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: None

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.

NOAA FORM 76-36D
(3-72)

(PART II)

TP-00311

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

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
		Unreviewed Class III Manuscript to G. Fromm for forwarding to Marine Charts,	01/03/86	

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: _____

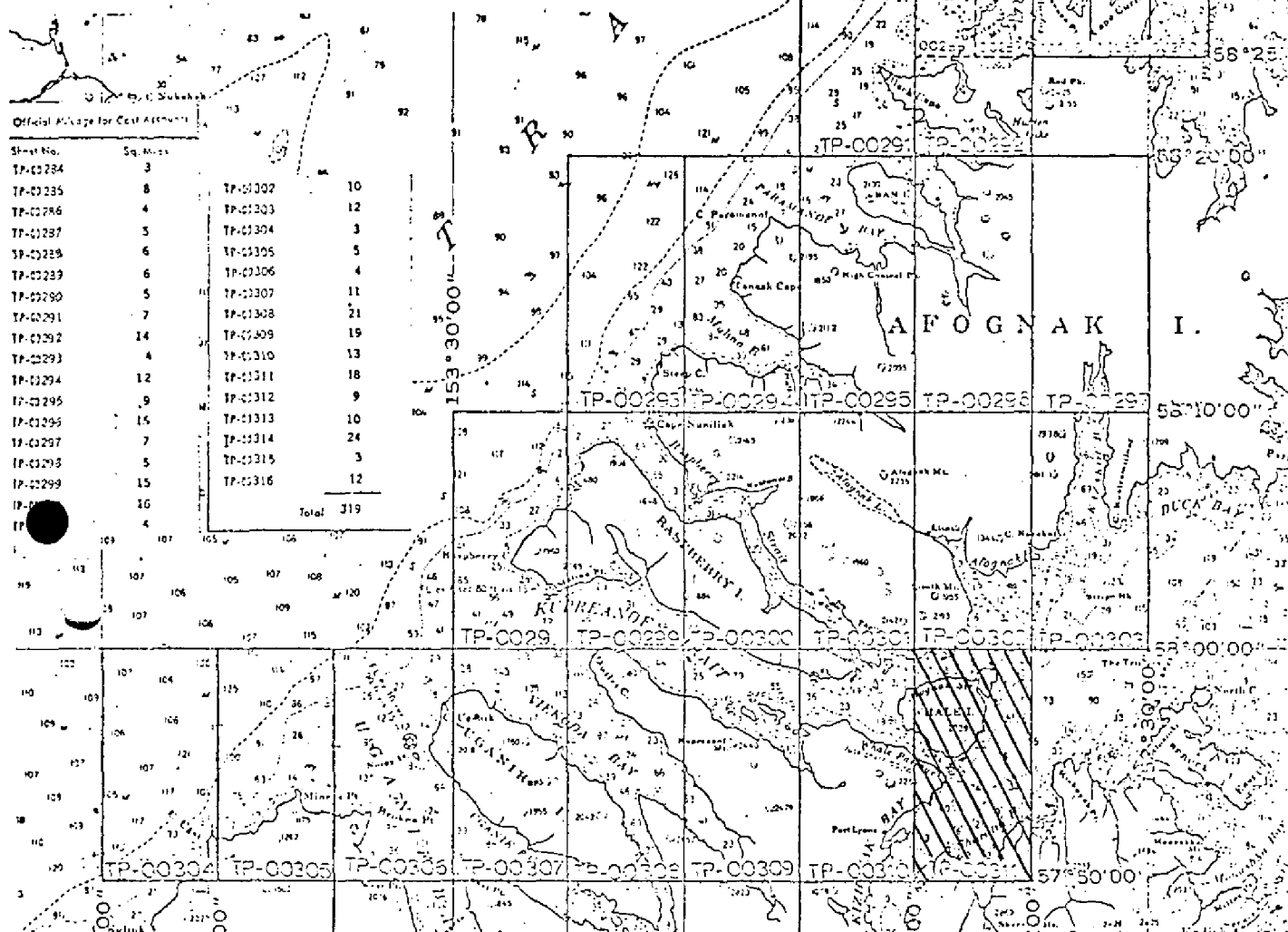
IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ 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	

JOB PH-7017

AFOGNAK & KODIAK ISLANDS
ALASKA

SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000



SUMMARY

Project PH-7017, Afognak and Kodiak Islands, Alaska, consists of 33 maps. Seven, TP-00284 through TP-00290, are at 1:10,000 scale and 26, TP-00291 through TP-00316, are at 1:20,000 scale. The project area is the northwestern coast line of Kodiak and Afognak Islands and their interface with Shelikof Strait. The project extends from Big Bay in the northeast to Cape Ugat in the southwest. The photogrammetric survey depicts the shoreline and other cartographic features of mapping interest in the coastal areas and navigable waterways bisecting the islands.

The purpose of the project was to provide shoreline data for maintenance of the Nautical Charting Program and in support of hydrographic survey operations planned for the area.

Field operations consisted of recovery, establishment, and identification (premarking) of horizontal control necessary for aerotriangulation. No field inspection was conducted for this project. Panchromatic photographs required for aerotriangulation of the entire project area and subsequent compilation of the 1:20,000-scale maps were obtained with the RC-9 "M" camera at 1:60,000 scale. Supplemental color photographs at 1:20,000 scale were acquired for those areas to be mapped at 1:20,000 scale using the RC-8 "E" camera. Areas to be mapped at 1:10,000 scale were covered by 1:30,000-scale color compilation photographs also obtained with the RC-8 "E" camera. The 1:30,000-scale compilation photographs were controlled by aerotriangulated points derived from the 1:60,000-scale panchromatic photographs. All calculations pertaining to the vertical relationship of the photographs to the datums, mean lower low water and mean high water, were derived from predicted tidal information.

A field edit was performed by personnel of the Pacific Marine Center's hydrographic survey vessels, while conducting hydrographic survey operations in selected areas. These field edits, occurring over four field seasons, were limited to the boundaries of the hydrographic surveys, thereby creating numerous partially field edited maps. Field edits occurred during the 1972, 1973, 1977, and 1981 field seasons.

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The aerotriangulation of the project was divided into two phases (Part I and II), in order to expedite the delivery of photogrammetric map data in support of hydrographic survey operations. Eighteen strips of photographs were bridged using analytic aerotriangulation methods. Horizontal control used was field identified (premarked). Vertical control was taken from U. S. Geological Survey quadrangles. Aerotriangulated control proved adequate and meets the requirements of the National Standards of Map Accuracy.

Compilation was performed in the Coastal Mapping Section, Atlantic Marine Center, Norfolk, Virginia. Delineation was accomplished using a Wild B-8 stereoplotter through application of standard shoreline mapping techniques. This was supplemented by graphic compilation techniques in selected areas. Delineation was based on an office interpretation of the 1:60,000 scale panchromatic, and 1:20,000- and 1:30,000-scale natural color, photographs. All line work on the base maps was smooth drafted. In areas where the stage of tide for individual photographs, based on predictions, was determined to be within the required 1 foot of the vertical datum mean lower low water, the approximate datum was delineated on the map using graphic compilation techniques.

Final review was performed in the Coastal Mapping Unit, Rockville Maryland, office. The base maps and associated data of this project meet the requirements of the National Standards of Map Accuracy. The base maps and reports comply with the project instructions.

The Descriptive Reports prepared for each map contain all the information pertaining to the completion of each map.

FIELD INSPECTION

PH-7017
TP-00311

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

PHOTOGRAMMETRIC PLOT REPORT
AFOGNAK ISLAND, ALASKA, PART II
Job PH-7017
May 1973

21. AREA COVERED

This report covers sheets TP-00296 thru TP-00316 on Afognak Island, Alaska, at 1:20,000 scale.

22. METHOD

Ten strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska State Plane Coordinate System, Zone 5. The ten strips were also adjusted as a block. The attached sketch shows the placement of horizontal control. A list of closures to control is part of this report. Ties with Part I to the north was made by using five common control stations. Data for plotting manuscripts for compilation were assembled for ruling and plotting by the Coradomat. For the 1:20,000 scale maps, ratio prints of the bridging photography were ordered. (One each of cronapaque and matte).

23. ADEQUACY OF CONTROL

All control was adequate and held well within the accuracy required by National Standards of Maps at 1:20,000 scale.

24. SUPPLEMENTAL DATA

CLOSURES TO CONTROL (BLOCK ADJUSTMENT)

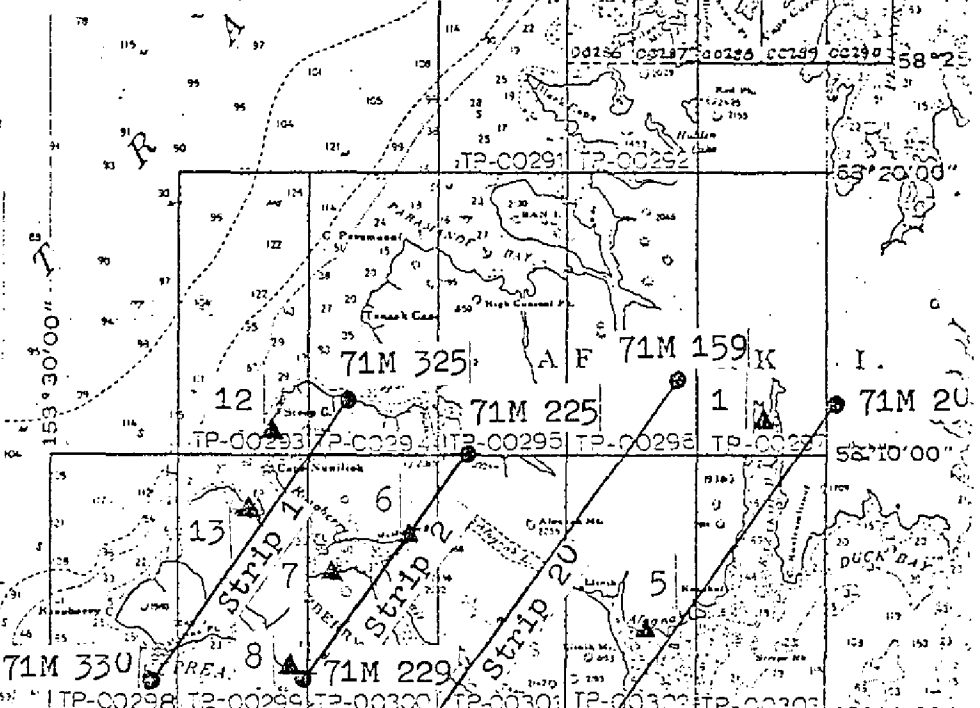
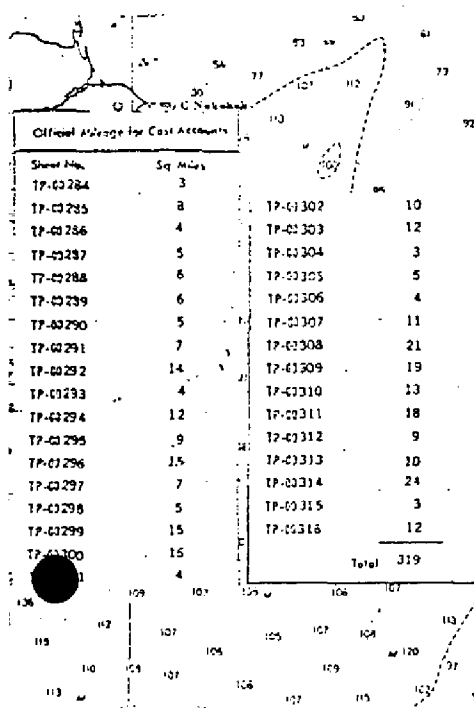
1	Kazakof, 1971 Sub. Sta.	(+ 0.1, + 0.3)
2	Ostro, 1971	(- 0.2, 0.0)
3	Slot, 1971	(+ 0.3, + 0.3)
4	Line, 1929	(- 0.2, + 0.3)
5	Settle, 1971 Sub. Sta.	(- 0.2 - 0.3)
6	Tie, 1941 Sub. Sta.	(- 0.7 + 0.3)
7	Dolphin Point Lt. 1941	(- 1.0 + 8.7)
8	Bay Cove Point 1907, 1908	(+0.5 - 0.4)
9	Pov, 1908	(+ 7.2 +7.8)
10	Cape Uganik, 1908	(+ 0.1 - 0.8)
11	Mesa, 1908	(+ 1.3, + 1.2)
12	Nun, 1941	(+ 0.8, + 0.7)
13	Raspberry Strait Lt.	(+ 2.1, + 3.5)
14	Bird Rock, 1908	(0.0, + 0.1)
15	1st, 1908, 1929	(0.0, - 0.3)
16	West Point, 1908	(+ 0.8, +0.3)
17	Cape Ugat, 1908	(+ 0.1, 0.0)

JOB PH-7017

AFOGNAK & KODIAK ISLANDS

ALASKA

SHORELINE MAPPING
SCALE 1:10,000 & 1:20,000



COMPILATION REPORT

PH-7017
TP-0031131 - DELINEATION

Delineation was by the Wild B-8 stereoplotter. The "M" photography was inadequate due to poor resolution and glare. Points were dropped from the stereoplotter and transferred to the ratios where shoreline points were cut in and the mean high water line and offshore details were compiled graphically.

32 - CONTROL

Refer to the Photogrammetric Plot Report dated May 1973.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office stereoscopic interpretation of the ratioed photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs. The mean high water line was delineated from office interpretation of the color photography.

36 - OFFSHORE DETAILS

There were no unusual problems with offshore details.

37 - LANDMARKS AND AIDS

There were no landmarks within the limits of this manuscript. One Form 76-40 was submitted to field for 2 aids.

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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 May 1973.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U. S. Geological Survey Quadrangle: Kodiak (D-3), Alaska, scale 1:63,360 dated 1949.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey Chart: 16594, 9th edition dated Dec. 30, 1978, scale 1:78,900.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

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F. Margiotta
Cartographic Tech.
Date: Nov. 1980

Approved:

Albert C. Rauck, Jr.
Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

PH-7017

TP-00311

FIELD EDIT

Reefs symbolized on this manuscript were detailed from photographs annotated by the field editor. These annotations were positioned by photo interpreting images visible on the photographs. Reefs were detailed on the shoreline manuscript as an aid in the verification of Hydrographic Survey Sounding Data. They do not represent the sounding datum Mean Lower Low Water. The latest Hydrographic Survey of the area should be consulted for the proper depiction of the Mean Lower Low Water Datum.

Submitted by:

Robert Mueller

Robert Mueller
Cartographer
Nov. 17, 1982

Approved:

James W. Massey
James W. Massey
Chief, Photogrammetric Branch

NOAA FORM 76-35A U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY FIELD EDIT REPORT DESCRIPTIVE REPORT OPR-PI46-DA/FA-81
Type of Survey Field No. TP-00311 Office No.
LOCALITY State Alaska General Locality Marmot Bay Locality 1981 CHIEF OF PARTY CDR Ned C. Austin
LIBRARY & ARCHIVES DATE

FIELD EDIT REPORT, TP-00311
OPR P146-DA/FA-81
MARMOT BAY, ALASKA

INTRODUCTION

Field edit on Manuscript TP-00311 (scale 1:20000) was performed by DAVIDSON personnel from June 16 (JD 167) through June 18 (JD 169) and on June 23 (JD 174). Manuscript TP-00311 covers the area bounded by latitudes 57/50/00 N to 58/00/00 N, and longitudes 152/40/00 W to 152/50/00 W. Hydrographic field sheet H-9949 (DA-10-1-81) is supported by field edit done on Manuscript TP-00311. This manuscript contains positions 6001-6107.

METHODS

Field edit was performed in accordance with Project Instructions OPR-P146-DA/FA-81, Shelikof Strait, Alaska, dated 6 February, 1981; and the Manual of Coastal Mapping and Field Procedures, Chapter 11. All features were located by one of three methods:

1. Photo identification
2. Three-point sextant fix with check angle
3. Taped distance and magnetic bearing from photo identifiable point

With each fix and/or photo position, the Universal (Greenwich Mean) Time, and height of the feature were recorded. Zone Description for the working area was +9 hours. Rock heights were taken in one of two ways: (1) If the rock was submerged, an oar would be used as a sounding pole, and the height (negative) would be recorded. (2) If the rock bared, a steel tape was used in conjunction with a hand level. All fix accuracies meet 1:10000 scale standards.

All field edit was performed on foot, or on skiffs WZ-3041 or WZ-3043. Since no matte ratio photographs were provided, it was necessary to take the chronapaque ratio photographs into the field. In order to preserve these photographs, all field work was done on the paper ozalid, using the photographs for clarification only. All data was transferred to the Master Field Edit Print and the chronapaque ratio photographs after returning to the ship. On Manuscript TP-00311, features were given a position number and referenced to the fix volume, which contains descriptive information on the position. The following photographs were used to support field edit operations on the manuscript:

<u>Photo</u>	<u>Position Numbers</u>
6362	6001 - 6016
6363	6017 - 6026
6044	6027 - 6058

<u>Photo</u>	<u>Position Numbers</u>
6045	6059 - 6073
6046	6074 - 6080
6047	6081 - 6086
6364	6087 - 6091
6365	6092 - 6095
6642	6096 - 6102, 6107
6049	6103 - 6104
6050	6105 - 6106

The master print and chronapaque photos were inked as follows:

Violet:	Verification and general notes
Red:	Additions
Green:	Deletions

All features transferred from the manuscript to the hydrographic field sheet were inked in red. Field edit data was not duplicated by hydrography, and does not appear as such on the final field sheet.

ADEQUACY OF COMPILATION

Photogrammetric compilation of rocks and obstructions was inconsistent. Some rocks, easily visible on the chronapaque photos, were not compiled, while others were. It was later learned that the compilation photography was 1:20000 scale, while the photos supplied to the ship were 1:10000 scale. This may have contributed to the inconsistencies in compilation.

Four offshore foul areas are of major importance. These areas are delineated by the following:

<u>Latitude</u>	<u>Longitude</u>	<u>Photo</u>	<u>Position Numbers</u>
57/58/12 N	152/42/56 W	6044	6040-6046
57/57/18 N	152/43/35 W	6044	6047-6058
57/54/56 N	152/48/08 W	6365	6092-6095
57/54/31 N	152/47/23 W	6642	6107

Compilation of these areas was adequate. However, due to kelp and extensive ledges, the foul limits were enlarged accordingly by the field editor.

A total of 12 photos were used to support field edit operations on TP-00311. Photo numbers, and stages of tide at which they were taken are:

<u>Photo</u>	<u>Tide Stage (ft.)</u>
6044-6047, 6049, 6050	+5.3
6362-6365	+4.4
6642	+1.6

Photographs from flight lines run at low tide were used whenever possible.

MAP ACCURACY

The mean high water line depicted on the map is accurate. The mean lower low water line is adequately depicted by hydrographic data.

MISCELLANEOUS

Field edit conditions were excellent. On sunny, calm days, visibility through the water was as deep as 30 feet, facilitating identification of submerged features. Dense kelp in some areas prohibited access, but these areas are delineated on the manuscript as well as on the photographs. All field work was done at or near low tide.

RECOMMENDATIONS

Manuscript TP-00311 is incomplete from Dolphin Point (latitude 57°59.3 N, longitude 152°43.3 W) westward along the north shore of Whale Island, as well as the Afognak Island shoreline, and a small portion of Kodiak Island in the south side of the sheet. This occurred because field edit priorities were to support hydrography, and the time available was not sufficient to complete hydrographic priorities as well as the manuscript. Therefore, it is recommended that the field edit of Afognak Strait be completed to upgrade TP-00311 to a Class I Manuscript. The remainder of the manuscript is complete.

Respectfully submitted,

Steven J. Konrad
Steven Konrad
LT(jg)

Approved and forwarded,

N. C. Austin
N. C. Austin
CDR, NOAA
Commanding Officer

SK:jf

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
LANDMARKS FOR CHARTS**ORIGINATING ACTIVITY**

- ☒ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☐ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH

- ☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT
(Field Party, Ship or Office)

DAVIDSON

STATE

ALASKA

LOCALITY

WHALE PASSAGE

DATE

9Aug 81

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

OPR-PI46-DA/FA-81 PH-7017

TP-00311

N.A. 1927

POSITION

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE

CHARTING
NAMEDESCRIPTION
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

None

LATITUDE

° / ' D.M. Meters

LONGITUDE

° / ' D.P. Meters

CHARTS
AFFECTED

16594

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD N/A	S.J. Konrad
POSITIONS DETERMINED AND/OR VERIFIED	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	☐ PHOTO FIELD PARTY ☒ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER (Specify)
	FIELD ACTIVITY REPRESENTATIVE
	OFFICE ACTIVITY REPRESENTATIVE
	☐ REVIEWER ☐ QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64.)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

NOAA FORM 76-40
(8-76)

Replaces C&GS Form 567.

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☒ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☐ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH

DATE
9 Aug 81LOCALITY
WHALE PASSAGESTATE
ALASKAREPORTING UNIT
(Field Party, Ship or Office)
DAVIDSON

- ☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

The following objects HAVE ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.

JOB NUMBER

SURVEY NUMBER

DATUM

N. A. 1927

OPR-P146-DA/FA-81

PH-7017

TP-00311

POSITION

LATITUDE

LONGITUDE

METHOD AND DATE OF LOCATION
(See instructions on reverse side)

OFFICE

FIELD

CHARTS
AFFECTEDCHARTING
NAME
(Record reason for deletion of landmark or aid to navigation.
Show triangulation station names, where applicable, in parentheses)

LATITUDE

POSITION

LONGITUDE

OFFICE

FIELD

CHARTS
AFFECTEDLIGHT
Ilkognak Rock Light 1
(Ilkognak Rock Light, 1954)

57 54

51.768 152 46

54.238 893.1

F-3-6-V
4 Aug. 1981

16594

DAY
BEACON
Whale Passage Daybeacon 4
(Whale Passage Daybeacon, 1954)

57 55

27.569 152 47

49.711 818.3

F-3-6-V
4 Aug. 1981

16594

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	S. J. Konrad
POSITIONS DETERMINED AND/OR VERIFIED	S. J. Konrad, N. M. Bogue
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND (Consult Photogrammetric Instructions	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

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

ABSTRACT OF TIME OF MICROGRAPHY OR FIELD EDIT

Date June 16, 1981

Project No. OPR-PI46-DA-81 Vessel Monark(WZ3041 & 3043)

Date of Survey June 1981

Fieldsheet No. TP-0031-1 Registry No. None

Fieldsheet is Complete/~~Incomplete~~

[illegible]

Review Report
TP-00311

61. General Statement

Refer to the summary bound with this Descriptive Report for an overview of the photogrammetric operations related to the production of this map and associated data.

62. Comparison with Registered Topographic Surveys

Comparison with registered topographic surveys was not a requirement for this project.

63. Comparison with Maps of Other Agencies

Refer to item 46 of the Compilation Report bound with this Descriptive Report for detailed information on this topic.

64. Comparison with Hydrographic Surveys

Comparison with hydrographic surveys was not a requirement for this project.

65. Comparison with Nautical Charts

Refer to item 47 of the Compilation Report bound with this Descriptive Report for information on this topic.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

67. Field Edit

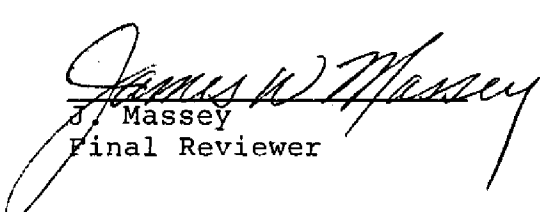
Field edit was performed by personnel of NOAA Ship Davidson during June, 1981. Information pertaining to the symbology of depicted features are discussed in the Addendum to the Compilation Report. For additional information refer to the Addendum to the Compilation Report included as part of this Descriptive Report.

68. Delineation

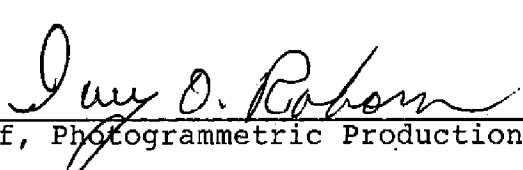
Map detail was compiled on the Wild B-8 stereoplotter using the 1:60,000-scale "M" camera, panchromatic photography. This was supplemented by office interpretation and graphic compilation techniques of the 1:20,000-scale "E" camera, color photography, both of which are listed on NOAA Form 76-36 B, compilation photography.

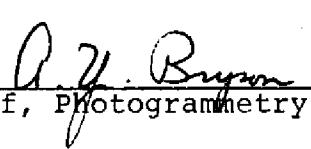
Submitted by,

D. Butler
Office Reviewer


J. Massey
Final Reviewer

Approved by,


Jay O. Robson
Acting Chief, Photogrammetric Production Section

 R. J. Bryson CDR NOAA
Chief, Photogrammetry Branch

Mar. 2, 1973

GEOGRAPHIC NAMES
FINAL NAMES SHEET
PH-7017 (Alaska)

TP-00311

Afognak Island
Afognak Point
Afognak Strait
Bird Point
~~Chugach National Forest~~ *JWM*
~~Crag Point~~ *JWM*
Dirovati Point
Dolphin Point
Far Point
Fox Bay
Head Point
Ilkognak Rock
Inner Point
~~Kekur Point~~ *JWM*
Kizhuyak Bay
Kodiak Island
Marmot Bay
~~National Forest Boundary (Approx.)~~ *JWM*
Near Point
Opasni Point
Orient Point
Shag Rocks
~~Sharatin Bay~~ *JWM*
Talnik Point
~~Three Pillar Point~~ *JWM*
Treeless Islet
Uzkosti Point
Whale Island
Whale ~~Strait~~ *Passage JWM*
Yuzhni Point

Approved by:

A. J. Wraight

A. Joseph Wraight
Chief Geographer

Prepared by:

C. E. Harrington

C. E. Harrington
Cartographer

INDEX TO PROJECT DATA AND MATERIAL ON FILE

PH-7017

AFOGNAK AND KODIAK ISLANDS, ALASKA

NATIONAL ARCHIVES/FEDERAL RECORDS CENTER

BROWN JACKETS: * Denotes Field Edit Information

1 of 3: - Project Map Diagram/Photogrammetric Flight
Line Layout

- * - 1 Paper & 2 Film Ozalids, TP-00286
- * - 1 Paper & 2 Film Ozalids, TP-00287
- * - 1 Paper & 2 Film Ozalids, TP-00288
- * - 1 Paper & 1 Film Ozalid, TP-00289
- * - 1 Paper & 1 Film Ozalid, TP-00290
- * - 1 Paper Ozalid, TP-00291
- * - 1 Paper Ozalid, TP-00292
- * - 1 Film Ozalid, TP-00293
- * - 1 Paper & 1 Film Ozalid, TP-00294
- * - 1 Paper & 1 Film Ozalid, TP-00295
- * - 1 Paper Ozalid, TP-00296
- * - 1 Film Ozalid, TP-00297
- * - 1 Paper & 1 Film Ozalid, TP-00301
- * - 1 Film Ozalid, TP-00303
- * - 1 Film Ozalid, TP-00310
- * - 1 Film Ozalid, TP-00311

- 2 of 3: - Binder of Aerotriangulation Printouts
- Binder Descriptive Report Control Records
C&GS Form 164
 - Binder of Photographic Flight Report
ESSA Form 76-15
 - Binder of Control Station Identification
Cards, C&GS Form 152
 - * - Binder of Computed Tide Curve Graphs &
Stage of Tide Computations for Photographic
and Field Edit Data
 - * - Binder of Pacific Marine Center generated
Computer Addendum to Horizontal Control
Reports
 - * - Binder Tide Data and Zoning Information
 - Bridging Photographs and Film Positives

- 3 of 3: * - 1 Sounding Volume for TP-00303
- * - 1 Sounding Volume for TP-00310
 - * - 1 Sounding Volume for TP-00311

PHOTOGRAPHS 9X9 FORMAT

- * - NOS 3 Aug. 71 E (C) 7352 thru 7355
- * - NOS 3 Aug. 71 E (C) 7269, 7270, 7272, 7294, 7295
- * - NOS 10 Jul. 71 E (C) 6708 thru 6710, 6726 thru 6730, 6734, 6736, 6738, 6739, 6741 thru 6743
- * - NOS 10 Jul. 71 E (C) 6642, 6645, 6646, 6648, 6649, 6668
- * - NOS 6 Jul. 71 E (C) 6362 thru 6370
- * - NOS 5 Jul. 71 E (C) 6217 thru 6226
- * - NOS 4 Jul. 71 E (C) 6113
- * - NOS 5 Jul. 71 E (C) 6141, 6151, 6152
- * - NOS 4 Jul. 71 E (C) 6044 thru 6047, 6049, 6050, 6076 thru 6078, 6081, 6091 thru 6094
- * - NOS 4 Jul. 71 E (C) 5995, 5996

PHOTOGRAPH SEGMENTS

- * - NOS 4 Jul. 71 M (P) 220
- * - NOS 4 Jul. 71 M (P) 221
- * - NOS 4 Jul. 71 M (P) 222
- * - NOS 4 Jul. 71 M (P) 225, Parts A,B,C
- * - NOS 3 AUG. 71 M (P) 319
- * - NOS 3 Aug. 71 M (P) 320
- * - NOS 3 Aug. 71 M (P) 322
- * - NOS 3 Aug. 71 M (P) 323
- * - NOS 3 Aug. 71 M (P) 324, Parts A,B
- * - NOS 3 Aug. 71 M (P) 325
- * - NOS 3 Aug. 71 M (P) 326, Parts A,B
- * - NOS 5 Jul. 71 E (C) 6246
- * - NOS 5 Jul. 71 E (C) 6247
- * - NOS 6 Jul. 71 E (C) 6282
- * - NOS 6 Jul. 71 E (C) 6281
- * - NOS 6 Jul. 71 E (C) 6283
- * - NOS 6 Jul. 71 E (C) 6284
- * - NOS 6 Jul. 71 E (C) 6290
- * - NOS 6 Jul. 71 E (C) 6291
- * - NOS 6 Jul. 71 E (C) 6318
- * - NOS 6 Jul. 71 E (C) 6321
- * - NOS 6 Jul. 71 E (C) 6323
- * - NOS 6 Jul. 71 E (C) 6333
- * - NOS 6 Jul. 71 E (C) 6334
- * - NOS 6 Jul. 71 E (C) 6335

PROJECT COMPLETION REPORT

AGENCY ARCHIVES

Registration Copy of the Map
Descriptive Report of the Map

PHOTOGRAMMETRIC ELECTRONIC DATA LIBRARY

There is no digital data for this project

REPRODUCTION BRANCH

8X Reduction Negative of Map

OFFICE OF THE STAFF GEOGRAPHER

Geographic Names Standard

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00311

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.