

TP-00310

TP-00310

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	
Map No. TP-00310	Edition No. One
Job No. PH-7017	
Map Classification Final Class III (Partial Field Edit)	
Type of Survey Shoreline	
LOCALITY	
State Alaska	
General Locality Afognak and Kodiak Islands	
Locality Kupreanof Strait	
1971 TO 19	
REGISTERED IN ARCHIVES	
DATE	

## DESCRIPTIVE REPORT

TP-00310

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NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Atlantic Marine Center Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr., NOAA		SURVEY TP.00310 MAP EDITION NO. (1) MAP CLASS Final Class III JOB PH-7017	
PHOTOGRAMMETRIC OFFICE Atlantic Marine Center Norfolk, Virginia OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr., NOAA		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation Instr. Nov. 19, 1971 Office Instr. Apr. 17, 1972 Office Instr., Supplement 1 May 11, 1973 Office Instr., Amendment 1 Not Dated		Field Support Instr. May 03, 1971	
<b>II. DATUMS</b>			
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		4. GRID(S) STATE Alaska ZONE 5	
5. SCALE 1:20,000		STATE ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		R. Kelly May 1973	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY		Allen May 1973 Allen May 1973	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 Stereoplotter SCALE: 1:20,000 CHECKED BY		L. Williams Sept. 1980 D. Butler Sept. 1980 N/A N/A	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY		F. Mauldin Oct. 1980 L. Neterer, Jr. Nov. 1980 N/A N/A F. Mauldin Oct. 1980 L. Neterer, Jr. Nov. 1980	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		L. Neterer, Jr. Nov. 1980	
6. APPLICATION OF FIELD EDIT DATA (Partial) BY		R. Mueller Oct. 1982	
7. COMPILATION SECTION REVIEW BY		J. Massey Nov. 1982	
8. FINAL REVIEW BY		D. Butler Mar. 1986	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Massey Feb. 1987	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY JUN '87	

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

TP-00310

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8"E" (152.71mm) Wild RC-9"M" (88.20mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska MERIDIAN 150th <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71 E(C) 6051-6054	4 July 1971	13:15	1:20,000	5.3 ft. above MLLW	
71 E(C) 6076-6081	4 July 1971	13:35	1:20,000	4.2 ft. above MLLW	
71 E(C) 6366-6370	6 July 1971	15:30	1:20,000	4.4 ft. above MLLW	
71 E(C) 6645-6649	10 July 1971	09:10	1:20,000	2.6 ft. below MLLW	
71 E(C) 7294-7296	3 Aug. 1971	11:15	1:20,000	10.6 ft. above MLLW	
71 E(C) 5984-5990	4 July 1971	12:42	1:20,000	5.8 ft. above MLLW	
*71 M(P) 196-198	4 July 1971	11:08	1:60,000	6.6 ft. above MLLW	

## REMARKS

\* Compilation photography

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

The mean high water line was compiled from the above listed compilation photography. One small section in the lower southern part of the sheet was compiled graphically.

## 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-00301	TP-00311	No survey	TP-00309

## REMARKS



TP-00310  
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 D.L.S.	June 1971
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY D.L.S.	June 1971
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 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	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

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
71M-166	OSTRO, 1971		

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)

One Form C&amp;GS-152 (CSI)

TP-00310  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	N. C. Austin, CDR, NOAA	4 Aug. 1981
2. HORIZONTAL CONTROL	RECOVERED BY None 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. J. Konrad, LTJG, NOAA LOCATED (Field Methods) BY S. J. Konrad, LTJG, NOAA IDENTIFIED BY None	27 June 1981 4 Aug. 1981
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	None
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY S. J. Konrad, LTJG, NOAA	4 Aug. 1981
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)

71 E(C) 6076, 6077, 6081, 6366-6370, 6646, 6648, 6649, 7294, 7295, 6078, 6080, 6645

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)

One original Field Edit Report and one copy; One Field Edit Ozalid;  
One Sounding Volume for TP-00310

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

(Part I)

TP-00310  
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. 1980	Class III Manuscript	Dec 18, 1980	Dec 18, 1980
Partial Field Edit Applied to Manuscript	Oct. 1982	Class III Manuscript		Nov. 1982
		Class III Manuscript		Feb. 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) Fixed Aids to Navigation 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.  
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: 6/3/87

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

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

(Part II)

TP-00310  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
		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 <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY  MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



JOB PH-7017

# AFOGNAK & KODIAK ISLANDS ALASKA

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

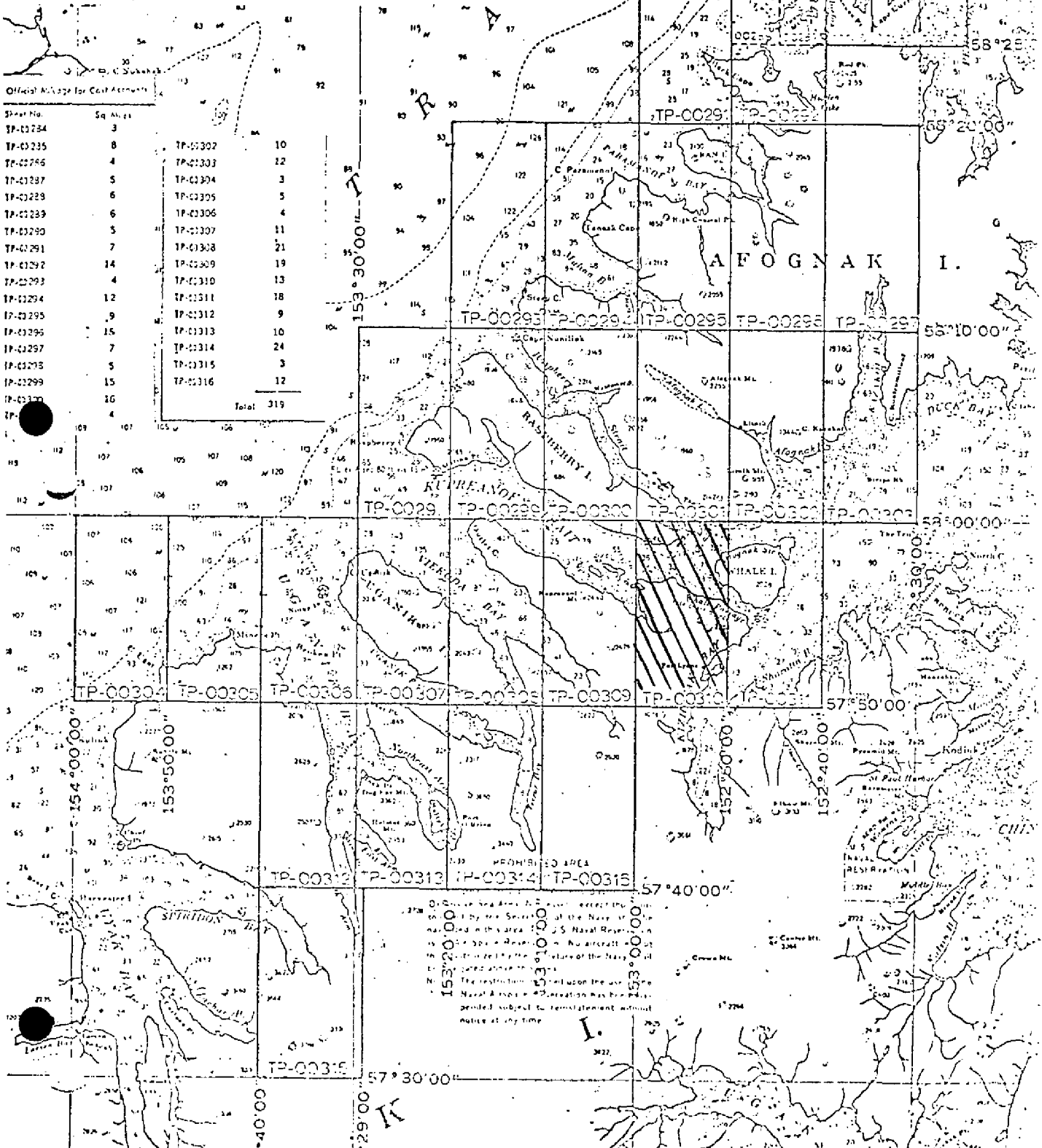


Official Mileage for Coast Accounts

Sheet No.	Sq. Miles
TP-01284	3
TP-01285	8
TP-01286	4
TP-01287	5
TP-01288	6
TP-01289	6
TP-01290	5
TP-01291	7
TP-01292	14
TP-01293	4
TP-01294	12
TP-01295	9
TP-01296	15
TP-01297	7
TP-01298	5
TP-01299	15
TP-01300	16
TP-01301	4

TP-01302	10
TP-01303	12
TP-01304	3
TP-01305	5
TP-01306	4
TP-01307	11
TP-01308	21
TP-01309	19
TP-01310	13
TP-01311	18
TP-01312	9
TP-01313	10
TP-01314	24
TP-01315	3
TP-01316	12
<b>Total</b>	<b>319</b>



## 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.

29  
6

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

TP-00310

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

US Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. PHOTOGRAPHY

RC-9 black and white film positives were adequate as to coverage, overlay, and definition.

Submitted by,

*Robert B. Kelly*  
Robert B. Kelly

Approved and forwarded:

*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation  
Section

## 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 )

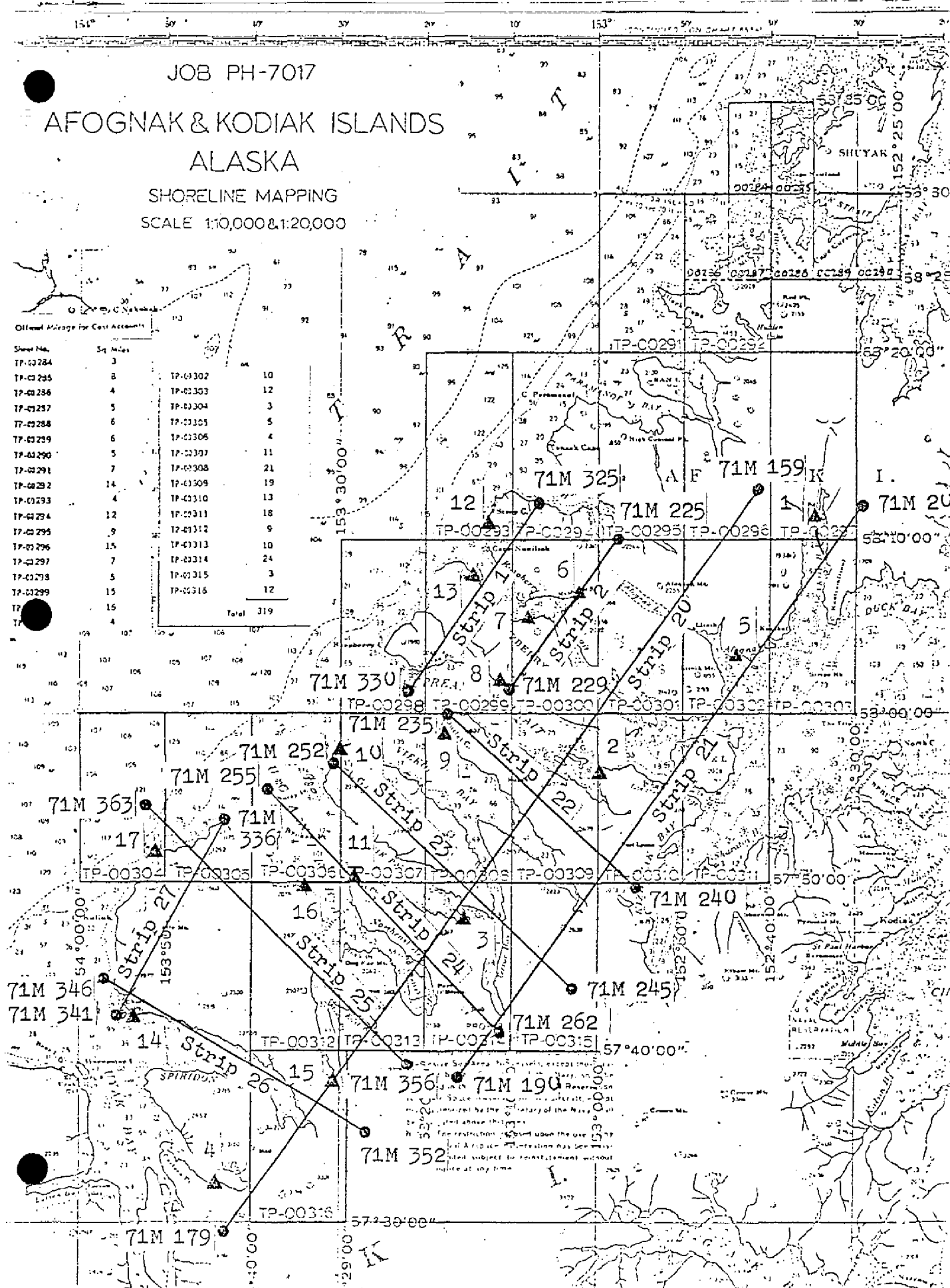


JOB PH-7017

AFOGNAK & KODIAK ISLANDS  
ALASKASHORELINE MAPPING  
SCALE 1:10,000 & 1:20,000

Offset Mileage for Cost Account

Sheet No.	Sq. Miles		
TP-02284	3	TP-02302	10
TP-02285	8	TP-02303	12
TP-02286	4	TP-02304	3
TP-02287	5	TP-02305	5
TP-02288	6	TP-02306	4
TP-02289	6	TP-02307	11
TP-02290	5	TP-02308	21
TP-02291	7	TP-02309	19
TP-02292	14	TP-02310	13
TP-02293	4	TP-02311	18
TP-02294	12	TP-02312	9
TP-02295	9	TP-02313	10
TP-02296	15	TP-02314	24
TP-02297	7	TP-02315	3
TP-02298	5	TP-02316	12
TP-02299	15		
TP-02300	15		
TP-02301	4		
		Total	319



## DESCRIPTIVE REPORT CONTROL RECORD

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

MAP NO.	STATION NAME	JOB NO.	GEODEIC DATUM		AEROTRI- ANGULATION POINT NUMBER	SOURCE OF INFORMATION (Index)	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS Forward (Back)
			TP-00310	PH-7017			STATE	ZONE	North American Datum 1927	$\phi$ LATITUDE $\lambda$ LONGITUDE	
CARE, 1954	Quad 571524						x= 726,190.73 y= 1,435,825.72		$\phi$ 57° 55' 32.327" $\lambda$ 152° 50' 11.048"	1000.1 ( 856.2) 181.9 ( 805.8)	
DARK, 1907	Quad 571524						x= 706,817.20 y= 1,444,138.47		$\phi$ 57° 56' 57.361" $\lambda$ 152° 56' 07.339"	1774.7 ( 81.7) 120.7 ( 866.3)	
DERENOF ROCK, 1907	Quad 571524						x= 715,941.95 y= 1,451,446.01		$\phi$ 57° 58' 07.900" $\lambda$ 152° 53' 16.050"	244.4 (1611.9) 263.9 ( 721.9)	
KONIUJI ISLAND LIGHT 5	Preliminary Adjusted G.P. Listing						x= y=		$\phi$ 57° 55' 49.380" $\lambda$ 152° 50' 11.481"	1527.7 ( 328.6) 189.0 ( 798.5)	
KRAD, 1954	Quad 571524						x= 723,412.91 y= 1,437,442.63		$\phi$ 57° 55' 48.723" $\lambda$ 152° 51' 01.971"	1507.4 ( 348.9) 32.4 ( 954.8)	
LAST TIMBER POINT LIGHT, 1954	Quad 571524						x= 697,717.35 y= 1,454,697.37		$\phi$ 57° 58' 42.760" $\lambda$ 152° 58' 52.994"	1323.0 ( 533.4) 871.0 ( 115.2)	
OSTRO, 1971	Quad 571524				166100		x= 695,871.83 y= 1,443,691.48		$\phi$ 57° 56' 54.611" $\lambda$ 152° 59' 30.261"	1689.6 ( 166.7) 497.8 ( 489.2)	
							x= y=		$\phi$ $\lambda$		
							x= y=		$\phi$ $\lambda$		
							x= y=		$\phi$ $\lambda$		
							x= y=		$\phi$ $\lambda$		
COMPUTED BY R. Mueller					DATE 10/19/82		COMPUTATION CHECKED BY James Massey		DATE 10/29/82		
LISTED BY R. Mueller					DATE 10/19/82		LISTING CHECKED BY James Massey		DATE 10/29/82		
HAND PLOTTING BY R. Mueller					DATE 10/19/82		HAND PLOTTING CHECKED BY James Massey		DATE 10/29/82		

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

## COMPILATION REPORT

PH-7017  
TP-00310

31 - DELINEATION

Delineation was by Wild B-8 stereoplotter. A small section of shoreline in the extreme southern portion of the sheet was done graphically using the color contact prints.

32 - CONTROL

See the attached 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 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 ratio photographs. The mean high water line was delineated and refined from the ratio photographs. One small section of shoreline was compiled graphically.

36 - OFFSHORE DETAILS

The offshore details were limited to rocks and ledges. There were no unusual problems with the exception of excessive glare in some areas.

37 - LANDMARKS AND AIDS

Within the limits of this manuscript there was one aid to navigation which was also a triangulation station. There were no landmarks.

PH-7017  
TP-00310

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

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, no photo revision.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart: No. 16594, scale 1:78,900; dated January 30, 1971, 5th Edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

*15/*  
Fay F. Mauldin  
Cartographer  
October 31, 1980

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

PH-7017  
TP-00310

FIELD EDIT

Thomas Rock was identified on Photograph 71 E(C) 6370 by the field editor. Due to the stage of tide on this photograph and surface wave action on adjoining photographs, the rock could not be positively identified. The adjoining photographs were pricked where the rock appeared to be and Thomas Rock was then located on the manuscript by radial line plot methods. The radial line plot did not meet accuracy standards and was therefore labeled as a Position Approximate.

Reefs and ledges 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 and ledges 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 <del>DESCRIPTIVE REPORT</del>  OPR-PI46-DA/FA-81
Type of Survey ..... Field No. TP-00310 ..... 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-00310  
OPR P146-DA/FA-81  
MARMOT BAY, ALASKA

INTRODUCTION

Field edit on Manuscript TP-00310 (scale 1:20000) was performed by DAVIDSON and PMC personnel from June 24 (JD 175) through June 28 (JD 179), and on July 30 (JD 211), and August 4 (JD 216). Manuscript TP-00310 covers the area bounded by latitudes 57/50/00 N to 58/00/00 N, and longitudes 152/50/00 W to 153/00/00 W. Hydrographic field sheet H-9949 (DA-10-1-81) is supported by field edit done on Manuscript TP-00310.

METHODS

Field edit was performed in accordance with Project Instructions OPR-P146-DA/FA-81, Shelikof Strait, Alaska, dated February 6, 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 of the position, 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-00310, all height and time data were recorded on the master print, or reference was made to the fix volume which contains descriptive information on the position. The following chronapaque ratio photographs were used to support field edit operations on this manuscript: 6076, 6077, 6081, 6366-6370, 6646, 6648, 6649, 7294, 7295. The master print and chronapaque photos were inked as follows:

Violet:	Verification, additions, and general notes
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.

The "shallow" zones delineated along the northern shore of Kodiak Island and the southwestern shore of Whale Island were deleted. The compiler may have mistaken kelp for shallow water along these shores. This same problem occurred in the area bounded by longitudes 152/51/00 W to 152/56/00 W, and north of latitude 57/58/00 N, although the solution proved much more complicated (see manuscript).

A rock, located at approximately 57/56/40 N and 153/00/05 W (see page 5 of fix volume), falls off the limit of the manuscript. However, because of its proximity to the mouth of Dry Spruce Bay, the field editor believes this rock to be of major importance, and recommends it be used for future charting purposes.

A total of 13 photographs were used to support field edit operations on TP-00310. Photo numbers, and stages of tide at which they were taken are:

<u>Photo Numbers</u>	<u>Tide Stage (ft.)</u>
6076, 6077, 6081	+4.2
6366 - 6370	+4.4
6646, 6648, 6649	+1.6
7294, 7295	+8.2

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,

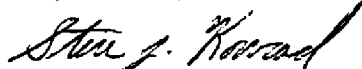
but these areas are delineated on the manuscript as well as on the photographs. All field work was done at or near low tide. Special note should be taken of the area bounded by longitude 152/51/00 W to 152/56/00 W, and north of latitude 57/58/00 N. At low water this area virtually "empties out" exposing numerous ledges, shoals, and gravel bars between islands. Even in a small boat, extreme care must be taken when navigating these channels to avoid being trapped by a falling tide. The manuscript and photographs accurately delineate the major hazards, but for future charting purposes, it should be noted that this area be navigated with caution during a falling tide.

The Chiachi Point (Whale Island) tide gage was not installed to support field edit operations. The Nachalni Island tide gage is believed adequate for field edit purposes.

#### RECOMMENDATIONS

Manuscript TP-00310 is incomplete south of latitude 57/54/00 N. 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 the Port Lyons area be completed to upgrade TP-00310 to a Class I Manuscript. The remainder of the manuscript is complete.

Respectfully submitted,



Steven Konrad  
LT(jg), NOAA

Approved and forwarded,



N. C. Austin  
CDR, NOAA  
Commanding Officer

SK:jf

Replaces CACS Form 567.

## LANDMARKS FOR CHARTS

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

## ORIGINATING ACTIVITY

☒ TO BE CHARTED  
☐ TO BE REVISED  
☐ TO BE DELETEDREPORTING UNIT  
(If 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-PL46-DA/FA-81 PH-7017

TP-00310

N.A. 1927

## POSITION

LATITUDE

° /

D.M. Meters

LONGITUDE

° /

D.P. Meters

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

OFFICE

FIELD

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

None

CHARTS  
AFFECTED

16594

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

(See reverse for responsible personnel)

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	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64,	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>II. TRIANGULATION STATION RECOVERED</b> 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 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	





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	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
<b>OFFICE</b> <b>1. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>1. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field                      P - Photogrammetric L - Located                    Vis - Visually V - Verified 1 - Triangulation            5 - Field identified 2 - Traverse                6 - Theodolite 3 - Intersection            7 - Planetable 4 - Resection                8 - Sextant  A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75	<b>11. TRIANGULATION STATION RECOVERED</b> 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  <b>111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75  <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
<b>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.</b>	

Date 24-JUNE-1981

Project No. OPR-P146-DA-81      Vessel WZ3041 & WZ3043

Date of Survey JUNE-JULY, 1981

Fieldsheet No. TP-00310 Registry No.

Fieldsheet is ~~Complete~~/Incomplete

[illegible]

Review Report  
TP-00310

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, July, and August, 1981. Information pertaining to the methodology used in the application of the field data to the manuscript and 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

James W. Massey  
J. Massey  
Final Reviewer

Approved by,

Irving O. Rahon  
Acting Chief, Photogrammetric Production Section

A. V. Bryn CDR, NOAA  
Chief, Photogrammetry Branch

Mar. 2, 1973

## GEOGRAPHIC NAMES

## FINAL NAMES SHEET

PH-7017 (Alaska)

TP-00310

Afognak Island  
Afognak Strait  
Chernof Point  
Chiachi Point  
~~Chugach National Forest~~ *gum*  
Deranof Island  
Deranof Rock  
Dry Spruce Bay  
Kizhuyak Bay  
Kodiak Island  
Koniuji Islet  
Kupreanof Strait  
Last Timber Point  
Little Raspberry Island  
Nachalni Island  
Nachalni Point  
~~National Forest Boundary (Approx.)~~ *gum*  
Nochlega Point  
Occident Point  
Ostrovka Point  
Peregrebni Point  
Pokati Point  
Port Lions  
Port Wakefield  
Port Wakefield (town)  
Raspberry Island  
Settler Cove  
Shoal Point  
The Narrows  
The Slough

Thomas Rock  
Whale Island  
Whale Passage

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

