

TP 00293

TP-00293

NOAA FORM 76-35 (6-80)	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY	
<h1>DESCRIPTIVE REPORT</h1> <p>This Map Was Field Edited</p>	
Map No. TP-00293	Edition No. One
Job No. PH-7017	
Map Classification Final Field Edited Map	
Type of Survey Shoreline	
<h2>LOCALITY</h2>	
State Alaska	
General Locality Afognak and Kodiak Islands	
Locality Steep Cape	
<div style="border: 1px solid black; padding: 5px; text-align: center;">           19<sup>71</sup> TO 19<sup>77</sup> </div>	
<h2>REGISTERED IN ARCHIVES</h2>	
DATE	

# DESCRIPTIVE REPORT

TP-00293

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<b>NOAA FORM 76-36A</b> (3-72)		<b>U. S. DEPARTMENT OF COMMERCE</b> 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. <u>00293</u> MAP EDITION NO. <u>1</u> MAP CLASS <u>Final</u> JOB <u>PH-7017</u> LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> MAP CLASS <u></u> SURVEY DATES: 19 <u></u> TO 19 <u></u>	
<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: (Partial) <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)	
3. MAP PROJECTION Polyconic		4. GRID(S) STATE      ZONE Alaska      5	
5. SCALE 1:20,000		STATE      ZONE	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>D. Norman</u>	<u>Mar. 1972</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		<u>D. Phillips</u>	<u>Apr. 1972</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION      CHECKED BY INSTRUMENT <u>Wild B-8 Stereoplotter</u> CHECKED BY SCALE: <u>1:20,000</u> CHECKED BY		<u>R. R. White</u> <u>L. O. Neterer</u> <u>N/A</u> <u>N/A</u>	<u>May 1972</u> <u>May 1972</u>  
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>Smooth Drafted</u> CHECKED BY SCALE: <u>1:20,000</u> CHECKED BY HYDRO SUPPORT DATA BY		<u>S. Kumer</u> <u>A. L. Shands</u> <u>N/A</u> <u>N/A</u> <u>S. Kumer</u> <u>A. L. Shands</u>	<u>June 1972</u> <u>June 1972</u>  <u>June 1972</u> <u>June 1972</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>A. L. Shands</u>	<u>June 1972</u>
6. APPLICATION OF FIELD EDIT DATA BY		<u>C. Blood</u>	<u>Mar. 1978</u>
7. COMPILATION SECTION REVIEW BY		<u>F. Margiotta</u>	<u>Apr. 1978</u>
8. FINAL REVIEW BY		<u>D. Butler</u>	<u>Jan. 1986</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>J. Massey</u>	<u>Dec. 1986</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>E. L. DAUGHERTY</u>	<u>JUN '87</u>

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00293  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-9 "M" (88.20mm F.L.) Wild RC-8 "E" (152.71mm F.L.)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES				Alaska	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN 150th	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
71 M (P) 325 - 326	Aug. 3, 71	08:58	1:60,000	7.6 ft. above MLLW	
71 E (C) 7346 - 7349	Aug. 3, 71	11:51	1:20,000	11.1 ft. above MLLW	
*71 E (C) 6723	Jul. 10, 71	10:25	1:20,000	0.2 ft. above MLLW	

REMARKS \* A partial mean lower low water line was compiled thru an office interpretation of the color photography listed above. See the review report included as part of this Descriptive Report, item 67, for additional information on this subject.

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

The mean high water line was compiled from the photography listed above.

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

The mean lower low water line was compiled from the photography listed above.

## 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
No Survey	TP-00294	TP-00299	No Survey

REMARKS



TP-00293

## HISTORY OF FIELD OPERATIONS

1. ☒ FIELD OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Lanier	June 1971
2. HORIZONTAL CONTROL	RECOVERED BY L.L.R.	June 1971
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY L.L.R.	June 1971
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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 BY	
	<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 NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
71M 324	NUN, 1941		

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 152

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. P. Randall	May 1977
2. HORIZONTAL CONTROL	RECOVERED BY None	
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY None	
3. VERTICAL CONTROL	RECOVERED BY NA	
	ESTABLISHED BY NA	
	PRE-MARKED OR IDENTIFIED BY NA	
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 BY <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY M. Molchan	May 1977
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY NA	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION

3. PHOTO NUMBERS (Clarification of details).

71M(P)325-326

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-Film field edit ozalid  
 1-Paper field edit ozalid  
 Notes in the field edit report

## 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	6/2/72	Superseded Class III Manuscript	5/19/72	6/15/72
Field Edit applied Compilation complete	March 1978	Class I Manuscript	05/01/78	05/01/78
		Unreviewed Class I Map issued to Mr. Charles Lewis N/CG2321		July 1984

## II. LANDMARKS AND AIDS TO NAVIGATION - None

## I. 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: None
3. ☐ 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	

JOB PH-7017

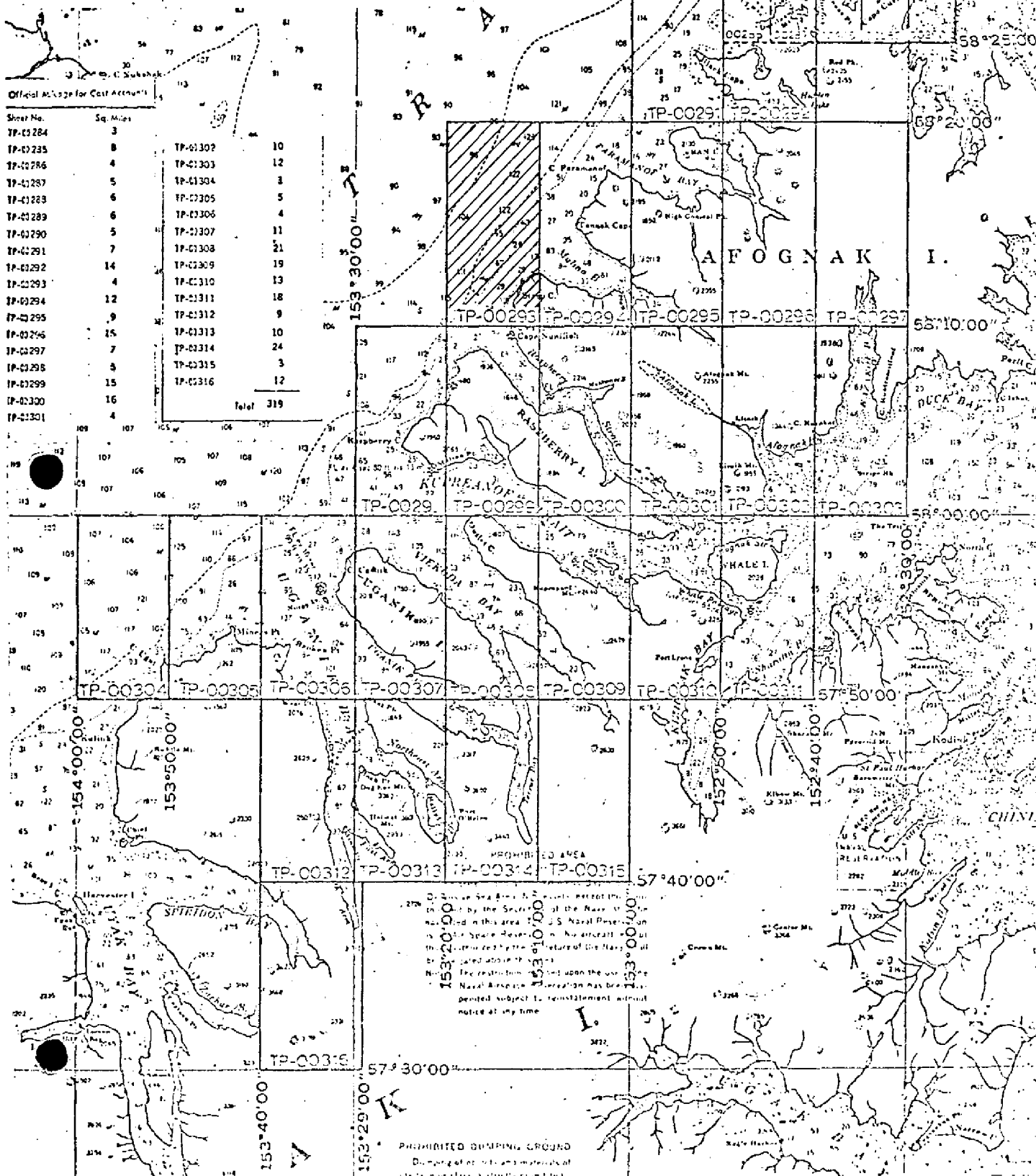
# FOGNAK & KODIAK ISLANDS ALASKA

SHORELINE MAPPING

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

Official Release for Cost Account

Sheet No.	Sq. Miles		
TP-0284	3		
TP-0285	8	TP-0302	10
TP-0286	4	TP-0303	12
TP-0287	5	TP-0304	3
TP-0288	6	TP-0305	5
TP-0289	6	TP-0306	4
TP-0290	5	TP-0307	11
TP-0291	7	TP-0308	21
TP-0292	14	TP-0309	19
TP-0293	4	TP-0310	13
TP-0294	12	TP-0311	18
TP-0295	9	TP-0312	9
TP-0296	15	TP-0313	10
TP-0297	7	TP-0314	24
TP-0298	3	TP-0315	3
TP-0299	15	TP-0316	12
TP-0300	16		
TP-0301	4		
		Total	319



PROHIBITED DUMPING GROUND  
Dumping of refuse and other materials  
is prohibited in this area.



## 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.

7

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-00293

Field inspection 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 I  
Job PH-707117  
March 1972

21. Area Covered

This report pertains to 13 sheets on Afognak Island. The sheets are TP-00284 thru TP-00290 at 1:10,000 scale and TP-00291 thru TP-00296 at 1:20,000 scale. The area covered is the northwest shoreline of Afognak Island.

22. Method

Eight strips of photography were bridged by analytic aerotriangulation methods and adjusted to ground on the Alaska state plane coordinate system, zone 5. Strips 1 and 2 of 1:60,000 scale photography were adjusted as a block and used to control the six strips of 1:30,000 scale photography.

23. Adequacy of Control

The horizontal control is sparse in both strips of 1:60,000 scale photography. However the project should still meet the map accuracy standards.

24. Supplemental Data

Vertical control was taken from USGS topographic quadrangles.

25. Photography

The photography was adequate.

Respectfully submitted:

*Don O. Norman*

Don O. Norman  
Cartographer

Approved and forwarded:

*Henry P. Eichert*

Henry P. Eichert, Chief  
Aerotriangulation Section



## Afognak Island, Alaska

Fit to Control  
(x, y) feet

Strips 1 & 2 (block adjustment)

1	BANKS, 1907	(+0.1, +0.1)
2	BEN, 1926 subpoint	(-0.5, -0.5)
3	BLUE, 1926	( 0.0, +0.4)
4	TIE, 1941 subpoint	(-0.2, -0.4)
5	NUN, 1941	(+0.1, +0.3)
6	BAY COVE POINT, 1907	(+0.5, +0.1)
7	DOLPHIN POINT LT., 1941	(-6.0, +5.2)
8	RASPBERRY STRAIT LT., 1941	(+4.9, -3.4)

Strip 3

76801	(+3.8, -3.1)
76802	( 0.0, 0.0)
77801	(+2.7, +2.7)
77802	( 0.0, 0.0)
79801	( 0.0, 0.0)
79802	(+1.5, +4.5)

Strip 4

33801	(+10.9, -10.9)
34801	( 0.0, 0.0)
35801	( 0.0, 0.0)
36801	(-2.3, -0.6)
38801	( 0.0, 0.0)
38802	(-6.9, +2.6)

Strip 5

18801	( 0.0, 0.0)
19801	(-1.3, -0.2)
BEN, 1926 subpoint	( 0.0, 0.0)
22801	(+5.4, +1.1)
23801	(+2.2, +0.1)

Strip 6

22801	( 0.0, 0.0)
45801	(-4.8, -4.4)
BLUE, 1926	(-4.0, +0.2)
47801	( 0.0, 0.0)

2

Strip 7

90801	( 0.0, 0.0)
91801	(+2.3, -0.9)
92801	( 0.0, 0.0)
92802	(-1.1, -0.7)

Strip 8

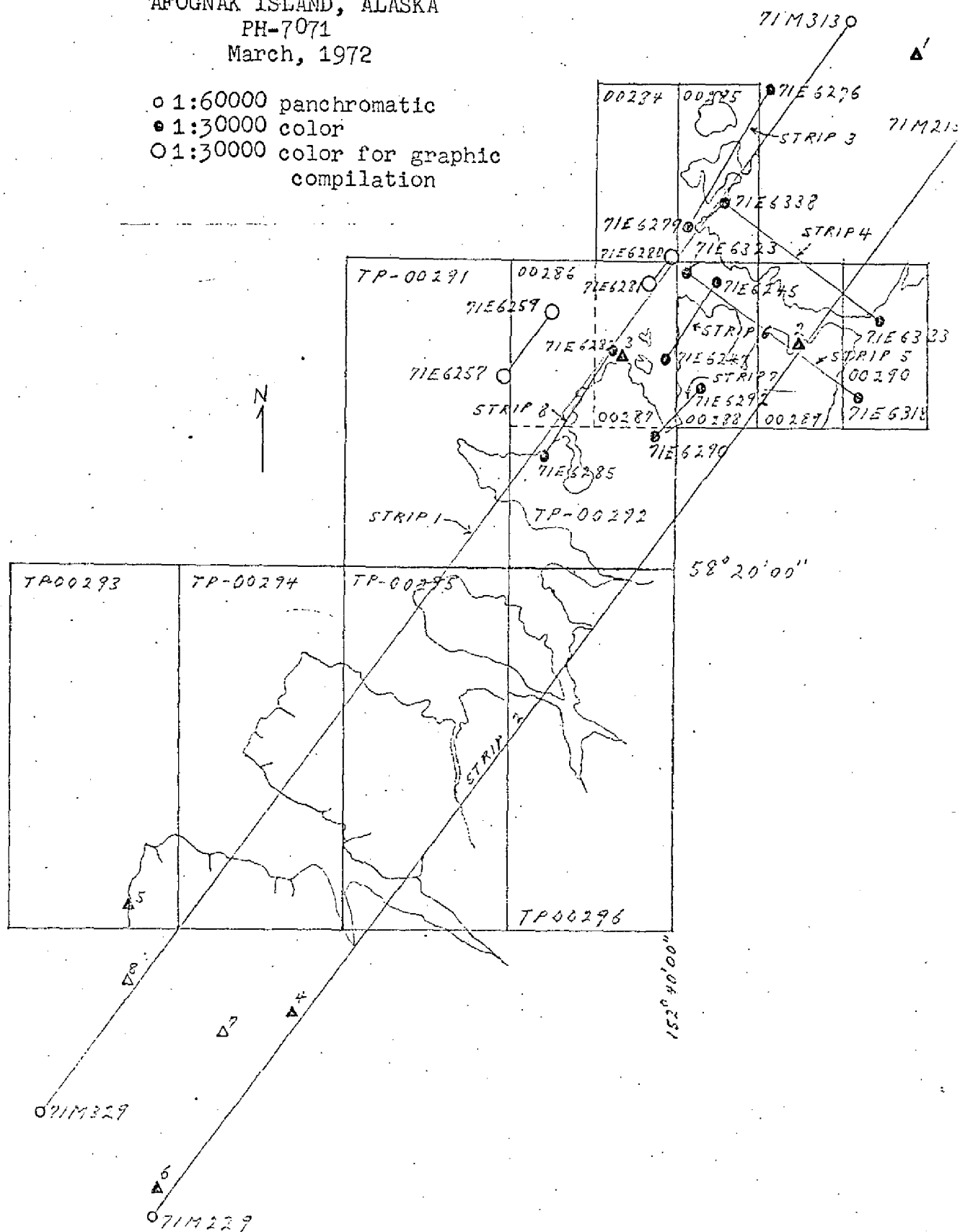
82801	(-2.2, +0.6)
82802	( 0.0, 0.0)
84801	( 0.0, 0.0)
85801	(-10.7, +4.6)
85802	( 0.0, 0.0)

AEROTRIANGULATION SKETCH  
AFOGNAK ISLAND, ALASKA  
PH-7071  
March, 1972

- ```

o 1:60000 panchromatic
* 1:30000 color
O 1:30000 color for graphic
               compilation

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## DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO.                   | STATION NAME     | JOB NO.                       | GEODETIC DATUM                 |                                      | ORIGINATING ACTIVITY                                        | COASTAL MAPPING |                        |
|---------------------------|------------------|-------------------------------|--------------------------------|--------------------------------------|-------------------------------------------------------------|-----------------|------------------------|
|                           |                  |                               | TP-00293                       | PH-7017                              |                                                             | NA 1927         | Division, Norfolk, Va. |
|                           |                  | SOURCE OF INFORMATION (Index) | AEROTRIANGULATION POINT NUMBER | COORDINATES IN FEET<br>STATE<br>ZONE | GEODETIC POSITION<br>$\phi$ LATITUDE<br>$\lambda$ LONGITUDE |                 |                        |
| NUN, 1941                 |                  | G.P. VOL V                    |                                | X=                                   | $\phi$ 58 11 09.814                                         | 303.6           | (1552.8)               |
|                           |                  | Pg. 260                       |                                | Y=                                   | $\lambda$ 153 13 00.407                                     | 6.7             | ( 974.7)               |
| PINNACLE ROCK NO. 2, 1941 |                  | G.P. VOL V                    |                                | X=                                   | $\phi$ 58 12 07.30                                          | 225.9           | (1630.5)               |
|                           |                  | Pg. 260                       |                                | Y=                                   | $\lambda$ 153 12 31.96                                      | 522.0           | ( 458.1)               |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
|                           |                  |                               |                                | X=                                   | $\phi$                                                      |                 |                        |
|                           |                  |                               |                                | Y=                                   | $\lambda$                                                   |                 |                        |
| COMPUTED BY               | A. C. Ruack, Jr. |                               | DATE                           | COMPUTATION CHECKED BY               | R. R. W.                                                    | DATE            | 6/2/72                 |
| LISTED BY                 |                  |                               | DATE                           | LISTING CHECKED BY                   |                                                             | DATE            |                        |
| HAND PLOTTING BY          |                  |                               | DATE                           | HAND PLOTTING CHECKED BY             |                                                             | DATE            |                        |



## COMPILATION REPORT

TP-00293

31. DELINEATION:

Delineation was by the WILD B-8 stereoplotter. There was no field inspection prior to compilation.

32. CONTROL:

See Photogrammetric Plot Report, dated March 1972.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are inapplicable. Drainage was delineated from office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

The mean high water line and alongshore details were delineated from office interpretation of the photographs. The photos were flown at 7.6 ft. and 11.1 ft. above mean lower low water.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See form 76-36b, item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS quadrangle:  
AFOGNAK (A-4) ALASKA, scale 1:63,360, dated 1953.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National  
Ocean Survey chart: 8556, scale 1:350,000, 4th edition, dated  
November 20, 1971 and 85~~6~~<sup>4</sup>, scale 1:78,900, 5th edition, dated  
January 30, 1971. 34

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Albert C. Rauck, Jr. for*  
Susan Kumer  
Cartographic Aid  
June 2, 1972

Approved:

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

ADDENDUM TO COMPILATION REPORT

TP-00293

FIELD EDIT

Areas of ledge shown on chart 8533 and U. S. Geological Survey Quadrangle Afognak (A-4) Alaska, are not depicted on this map. The field editor indicated that some of the areas were foul, however not all the individual areas were addressed.

The foul with rocks area offshore from station NUN, 1941 appears to be more extensive than indicated by the field editor on photograph 71 E (C) 7346. The area was expanded after office stereoscopic examination of available data.

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

Type of Survey ..... FIELD EDIT  
Job No. .... <sup>17</sup>7071 ..... Map No. TP-00293  
Classification No. .... Edition No. ....  
OPR-478-RA-77

## LOCALITY

State ..... ALASKA  
General Locality ..... AFOGNAK ISLAND  
Locality ..... STEEP CAPE

19 77 TO 19

## REGISTRY IN ARCHIVES

DATE .....



## FIELD EDIT REPORT

TP-00293  
JOB - 7071  
OPR-478-RA-77

ALASKA  
AFOGNAK ISLAND  
STEEP CAPE

1 FIELD UNIT

MAY 17, 1977  
JD 137

## 51 METHODS

All shoreline delineated on TP-00293 was verified from a skiff. Heights of rocks and ledges were estimated at close range while submerged rocks were determined using a lead line.

Greenwich Mean Time ("Z" local + 9 hours) was used to reference the height and depth of rocks.

Shoreline and topographic notes are noted on black and white chronapaque photographs 71-M(P)-325 and 326. The annotations on TP-00293 were made using colors with the following accepted meanings: violet - verification of features, red - additions or revisions of features, green - deletion of features.

## 52 ADEQUACY OF COMPILATION

The compilation of manuscript TP-00293 was accurate in all but one area. A change in MHWL has been made at LAT.  $58^{\circ} 12' 28''$ , LONG.  $153^{\circ} 11' 54''$  where the manuscript shows a rock adjacent to the shoreline whereas, in fact, the field investigation assured the rock is connected to the shore. This correction is noted on both TP-00293 and photo 71-M(P)-325.

## 53 MAP ACCURACY

There was one other change to the manuscript besides that mentioned in the previous section. An area, foul with rocks, was added north and south of geodetic station NUN 1941, LAT.  $58^{\circ} 11' 09.814''$  N, LONG.  $153^{\circ} 13' 00.407''$  W.

The foul area begins south of NUN 1941 at a change in shoreline composition from rock to gravel (visible on photo 71-M(P)-326). The foul area continues northwest along the shore.

The northernmost boundary is another change in shoreline composition visible on photo #326. The foul area extends seaward approximately 50 meters. The seaward boundary was defined by a pass point (a rock at LAT.  $58^{\circ} 11' 09''$  N, LONG.  $153^{\circ} 13' 06''$  W).

## 54 RECOMMENDATIONS

There are no recommendations.

Respectfully submitted,

*Marianne Molchan*

Marianne Molchan  
Ens, NOAA

Approved by,

*James P. Randall*

James P. Randall  
Capt, NOAA

## SEPARATES FOLLOWING THE TEXT

- 1) Progress Sketch
- 2) Manuscript Layout

## PROGRESS SKETCH

OPR-478-RA-77

## HYDROGRAPHIC SURVEY

SHELIKOF STRAIT, ALASKA

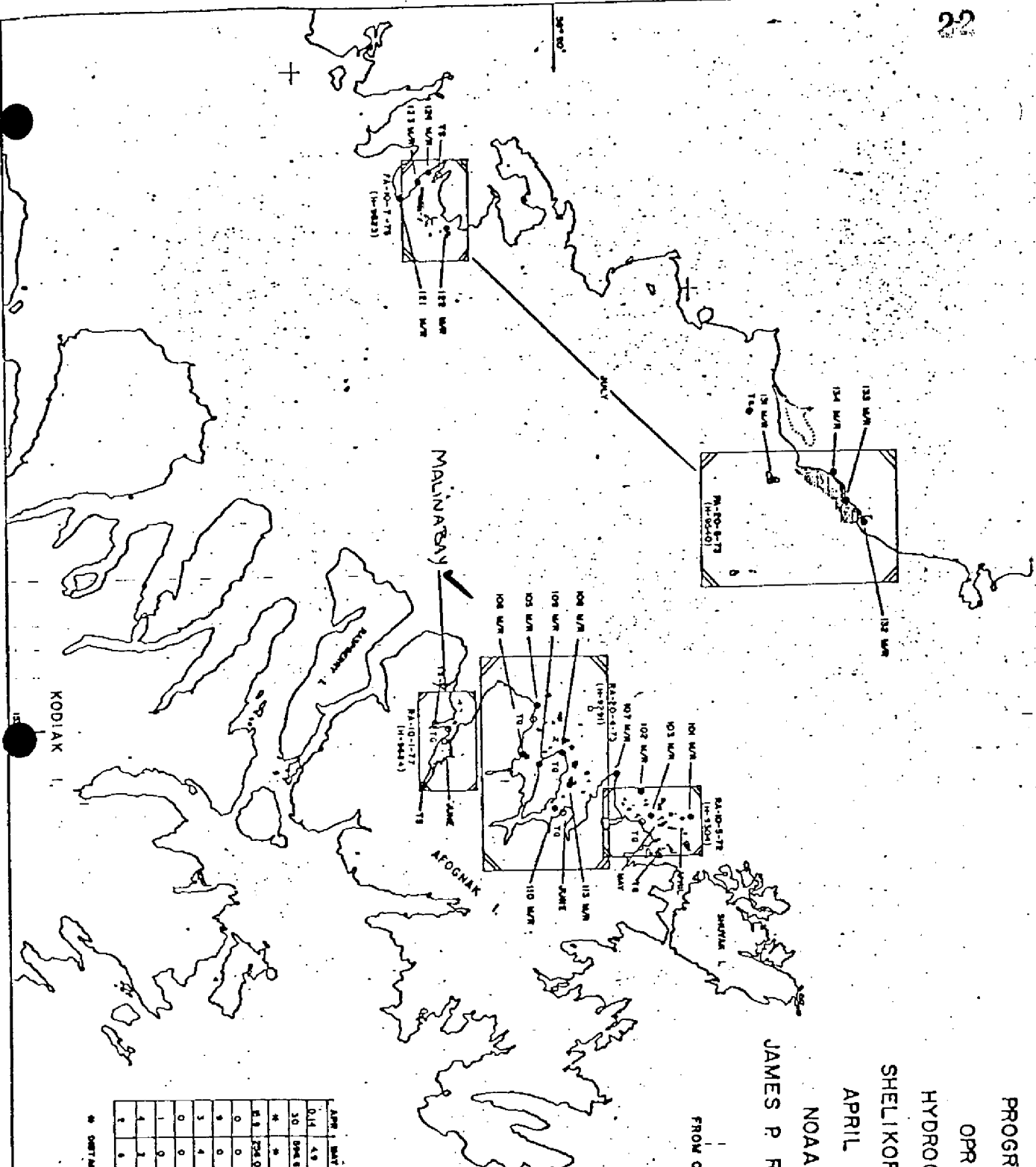
APRIL 18 - JULY 15, 1977

NOAA SHIP RAINIER

JAMES P. RANDALL, CAPT., NOAA

COMD'G.

FROM CHART 16580 (Formerly CG 65 6556)



## LEGEND

| NO. N.M. SOUNDING | NO. N.M. DISTANCE TO & FROM | NO. N.M. DISTANCE TO & FROM |
|-------------------|-----------------------------|-----------------------------|
| 0.14              | 4.9                         | 8.7                         |
| 3.0               | 0.94                        | 2.94                        |
| 4.9               | 0.94                        | 2.94                        |
| 8.7               | 0.94                        | 2.94                        |
| 12.5              | 0.94                        | 2.94                        |
| 16.3              | 0.94                        | 2.94                        |
| 20.1              | 0.94                        | 2.94                        |
| 23.9              | 0.94                        | 2.94                        |
| 27.7              | 0.94                        | 2.94                        |
| 31.5              | 0.94                        | 2.94                        |
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| 39.1              | 0.94                        | 2.94                        |
| 42.9              | 0.94                        | 2.94                        |
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| 73.3              | 0.94                        | 2.94                        |
| 77.1              | 0.94                        | 2.94                        |
| 80.9              | 0.94                        | 2.94                        |
| 84.7              | 0.94                        | 2.94                        |
| 88.5              | 0.94                        | 2.94                        |
| 92.3              | 0.94                        | 2.94                        |
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| 202.5             | 0.94                        | 2.94                        |
| 206.3             | 0.94                        | 2.94                        |
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| 213.9             | 0.94                        | 2.94                        |
| 217.7             | 0.94                        | 2.94                        |
| 221.5             | 0.94                        | 2.94                        |
| 225.3             | 0.94                        | 2.94                        |
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| 232.9             | 0.94                        | 2.94                        |
| 236.7             | 0.94                        | 2.94                        |
| 240.5             | 0.94                        | 2.94                        |
| 244.3             | 0.94                        | 2.94                        |
| 248.1             | 0.94                        | 2.94                        |
| 251.9             | 0.94                        | 2.94                        |
| 255.7             | 0.94                        | 2.94                        |
| 259.5             | 0.94                        | 2.94                        |
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| 274.7             | 0.94                        | 2.94                        |
| 278.5             | 0.94                        | 2.94                        |
| 282.3             | 0.94                        | 2.94                        |
| 286.1             | 0.94                        | 2.94                        |
| 289.9             | 0.94                        | 2.94                        |
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| 324.1             | 0.94                        | 2.94                        |
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| 331.7             | 0.94                        | 2.94                        |
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| 350.7             | 0.94                        | 2.94                        |
| 354.5             | 0.94                        | 2.94                        |
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| 362.1             | 0.94                        | 2.94                        |
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| 384.9             | 0.94                        | 2.94                        |
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| 396.3             | 0.94                        | 2.94                        |
| 400.1             | 0.94                        | 2.94                        |
| 403.9             | 0.94                        | 2.94                        |
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| 415.3             | 0.94                        | 2.94                        |
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| 426.7             | 0.94                        | 2.94                        |
| 430.5             | 0.94                        | 2.94                        |
| 434.3             | 0.94                        | 2.94                        |
| 438.1             | 0.94                        | 2.94                        |
| 441.9             | 0.94                        | 2.94                        |
| 445.7             | 0.94                        | 2.94                        |
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| 453.3             | 0.94                        | 2.94                        |
| 457.1             | 0.94                        | 2.94                        |
| 460.9             | 0.94                        | 2.94                        |
| 464.7             | 0.94                        | 2.94                        |
| 468.5             | 0.94                        | 2.94                        |
| 472.3             | 0.94                        | 2.94                        |
| 476.1             | 0.94                        | 2.94                        |
| 479.9             | 0.94                        | 2.94                        |
| 483.7             | 0.94                        | 2.94                        |
| 487.5             | 0.94                        | 2.94                        |
| 491.3             | 0.94                        | 2.94                        |
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| 506.5             | 0.94                        | 2.94                        |
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| 514.1             | 0.94                        | 2.94                        |
| 517.9             | 0.94                        | 2.94                        |
| 521.7             | 0.94                        | 2.94                        |
| 525.5             | 0.94                        | 2.94                        |
| 529.3             | 0.94                        | 2.94                        |
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| 540.7             | 0.94                        | 2.94                        |
| 544.5             | 0.94                        | 2.94                        |
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| 658.5             | 0.94                        | 2.94                        |
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| 669.9             | 0.94                        | 2.94                        |
| 673.7             | 0.94                        | 2.94                        |
| 677.5             | 0.94                        | 2.94                        |
| 681.3             | 0.94                        | 2.94                        |
| 685.1             | 0.94                        | 2.94                        |
| 688.9             | 0.94                        | 2.94                        |
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| 753.5             | 0.94                        | 2.94                        |
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| 768.7             | 0.94                        | 2.94                        |
| 772.5             | 0.94                        | 2.94                        |
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| 783.9             | 0.94                        | 2.94                        |
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| 924.5             | 0.94                        | 2.94                        |
| 928.3             | 0.94                        | 2.94                        |
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| 985.3             | 0.94                        | 2.94                        |
| 989.1             | 0.94                        | 2.94                        |
| 992.9             | 0.94                        | 2.94                        |
| 996.7             | 0.94                        | 2.94                        |
| 1000.5            | 0.94                        | 2.94                        |

\* DISTANCE TO &amp; FROM INCLUDED IN MEAS. DISTANCE



Review Report  
TP-00293

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. Mean Lower Low Water Line

An approximate mean lower low water line was delineated on the northern third of Afognak Island as it appears on this manuscript. The symbolized line was delineated thru an office interpretation and application by graphic compilation techniques of the 1:20,000-scale "E" camera, color photography listed on NOAA Form 76-36 B, item #1, compilation photography. The stage of

tide indicated for the photographs was based on predicted tides. The mean lower low water line depicted should be considered approximate and advisory only. For more information on the datum, mean lower low water, refer to the contemporary hydrographic survey of the area.

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,

Lucy O. Robson  
Acting Chief, Photogrammetric Production Section

W. D. Bryan CDR NOAA  
Chief, Photogrammetry Branch



December 13, 1971

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-7017 (Alaska)

TP-00293

Afognak Island

~~Chugach National Forest~~ *June*

Malina Creek

Shelikof Strait

Steep Cape

Approved by:

*A. Joseph Wright*  
A. Joseph Wright  
Chief Geographer

Prepared by :

*Frank W. Pickett*  
Frank W. Pickett  
Cartographic Technician

## 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

