

TP-00286

TP-00286

|                                                                                                                                      |                    |
|--------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| NOAA FORM 76-35<br>(6-80)<br>U.S. DEPARTMENT OF COMMERCE<br>NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION<br>NATIONAL OCEAN SURVEY |                    |
| <h2 style="text-align: center;">DESCRIPTIVE REPORT</h2> <p style="text-align: center;">This Map Was Field Edited</p>                 |                    |
| Map No.<br>TP-00286                                                                                                                  | Edition No.<br>One |
| Job No.<br>PH-7017                                                                                                                   |                    |
| Map Classification<br>Final Field Edited Map                                                                                         |                    |
| Type of Survey<br>Shoreline                                                                                                          |                    |
| <h3 style="text-align: center;">LOCALITY</h3>                                                                                        |                    |
| State<br>Alaska                                                                                                                      |                    |
| General Locality<br>Afognak and Kodiak Islands                                                                                       |                    |
| Locality<br>Grassy Island                                                                                                            |                    |
| <div style="border: 1px solid black; padding: 5px; text-align: center;">           19<sup>71</sup> TO 19<sup>73</sup> </div>         |                    |
| <h3 style="text-align: center;">REGISTERED IN ARCHIVES</h3>                                                                          |                    |
| DATE                                                                                                                                 |                    |

## DESCRIPTIVE REPORT

TP-00286

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

## DESCRIPTIVE REPORT - DATA RECORD

## TYPE OF SURVEY

- ☒ ORIGINAL  
☐ RESURVEY  
☐ REVISED

SURVEY TP. 00286

MAP EDITION NO. 1

MAP CLASS Final

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

- ☐ ORIGINAL  
☐ RESURVEY  
☐ REVISED

JOB PH. \_\_\_\_\_

MAP CLASS \_\_\_\_\_

SURVEY DATES:

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  
AlaskaZONE  
55. SCALE  
1:10,000

STATE

ZONE

## III. HISTORY OF OFFICE OPERATIONS

| OPERATIONS                                                                                         |                                                                                                 | NAME                                                     | DATE                   |
|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------|
| 1. AEROTRIANGULATION<br>METHOD: Analytic                                                           | BY<br>LANDMARKS AND AIDS BY                                                                     | D. Norman                                                | Mar. 1972              |
| 2. CONTROL AND BRIDGE POINTS<br>METHOD: Coradomat                                                  | PLOTTED BY<br>CHECKED BY                                                                        | D. Phillips<br>H. Eichert                                | Apr. 1972<br>Apr. 1972 |
| 3. STEREOSCOPIC INSTRUMENT<br>COMPILATION<br>INSTRUMENT: Wild B-8 Stereoplotter<br>SCALE: 1:10,000 | PLANIMETRY BY<br>CHECKED BY<br>CONTOURS BY<br>CHECKED BY                                        | R. White<br>R. Pate<br>N/A<br>N/A                        | May 1972<br>May 1972   |
| 4. MANUSCRIPT DELINEATION<br>METHOD: Smooth Drafted<br>SCALE: 1:10,000                             | PLANIMETRY BY<br>CHECKED BY<br>CONTOURS BY<br>CHECKED BY<br>HYDRO SUPPORT DATA BY<br>CHECKED BY | R. White<br>R. Pate<br>N/A<br>N/A<br>R. White<br>R. Pate | May 1972<br>May 1972   |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT                                                           | BY                                                                                              | R. Pate                                                  | May 1972               |
| 6. APPLICATION OF FIELD EDIT DATA                                                                  | BY<br>CHECKED BY                                                                                | H. Bazell<br>R. White                                    | July 1974<br>Aug. 1974 |
| 7. COMPILATION SECTION REVIEW                                                                      | BY                                                                                              | D. Butler                                                | Nov. 1985              |
| 8. FINAL REVIEW                                                                                    | BY                                                                                              | J. Massey                                                | Oct. 1986              |
| 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                |

NOAA FORM 76-36A

SUPERSEDES FORM C &amp; GS 181 SERIES

\* U.S. G.P.O. 1972-769382/582 REG.#6

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYTP-00286  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

|                                                                                                                                                                                           |  |                                                                                 |                                      |                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------|
| CAMERA(S)<br>Wild R.C. 8 "E" (152.71mm F.L.)                                                                                                                                              |  | TYPES OF PHOTOGRAPHY<br>LEGEND<br>(C) COLOR<br>(P) PANCHROMATIC<br>(I) INFRARED | TIME REFERENCE                       |                                                                                   |
| TIDE STAGE REFERENCE<br><input checked="" type="checkbox"/> PREDICTED TIDES<br><input type="checkbox"/> REFERENCE STATION RECORDS<br><input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY |  |                                                                                 | ZONE<br>Alaska<br>MERIDIAN<br>150°W. | <input checked="" type="checkbox"/> STANDARD<br><input type="checkbox"/> DAYLIGHT |

| NUMBER AND TYPE    | DATE      | TIME  | SCALE    | STAGE OF TIDE      |
|--------------------|-----------|-------|----------|--------------------|
| 71 E (C) 6257-6259 | 5 July 71 | 14:01 | 1:30,000 | 9.3 ft. above MLLW |
| 71 E (C) 6282-6284 | 5 July 71 | 14:14 | 1:30,000 | 9.0 ft. above MLLW |

REMARKS Tide levels were calculated for Big Bay, Shuyak Island Subordinate station using Seldovia as the reference station. Mean High Water is 13.10 feet above Mean Lower Low Water.

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

The Mean High Water Line was compiled on the Wild B-8 Stereoplotter using the color photographs listed above.

## 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     |
|-----------|----------|----------|----------|
| No Survey | TP-00287 | TP-00292 | TP-00291 |

REMARKS

TP-00286

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD OPERATION (Premarking) ☐ FIELD EDIT OPERATION

| OPERATION                           | NAME                                                                                                                                                                  | DATE                 |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| 1. CHIEF OF FIELD PARTY             | R. Lanier                                                                                                                                                             | June 1971            |
| 2. HORIZONTAL CONTROL               | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                                         | None<br>None<br>None |
| 3. VERTICAL CONTROL                 | RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                                         | N.A.<br>N.A.<br>N.A. |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY                                                                                  | None<br>None<br>None |
| 5. GEOGRAPHIC NAMES INVESTIGATION   | TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input checked="" type="checkbox"/> NO INVESTIGATION BY |                      |
| 6. PHOTO INSPECTION                 | CLARIFICATION OF DETAILS BY                                                                                                                                           | None                 |
| 7. BOUNDARIES AND LIMITS            | SURVEYED OR IDENTIFIED BY                                                                                                                                             | N.A.                 |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED and paneled  
None2. VERTICAL CONTROL IDENTIFIED  
N.A.

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
|              |              |              |                     |

## 3. PHOTO NUMBERS (Clarification of details)

None

## 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
|--------------|-------------|--------------|-------------|
|              |             |              |             |

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

## 7. SUPPLEMENTAL MAPS AND PLANS

None

## 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

None

TP-00286  
HISTORY OF FIELD OPERATIONSI. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION                                                                                                                                                                                       | NAME                     | DATE      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----------|
| 1. CHIEF OF FIELD PARTY                                                                                                                                                                         | K. Jeffers               | Aug. 1973 |
| 2. HORIZONTAL CONTROL<br>RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                                          | None<br>None<br>None     |           |
| 3. VERTICAL CONTROL<br>RECOVERED BY<br>ESTABLISHED BY<br>PRE-MARKED OR IDENTIFIED BY                                                                                                            | N.A.<br>N.A.<br>N.A.     |           |
| 4. LANDMARKS AND AIDS TO NAVIGATION<br>RECOVERED (Triangulation Stations) BY<br>LOCATED (Field Methods) BY<br>IDENTIFIED BY                                                                     | None<br>M. Allen<br>None | June 1973 |
| 5. GEOGRAPHIC NAMES INVESTIGATION<br>TYPE OF INVESTIGATION<br><input type="checkbox"/> COMPLETE<br><input type="checkbox"/> SPECIFIC NAMES ONLY<br><input type="checkbox"/> NO INVESTIGATION BY |                          |           |
| 6. PHOTO INSPECTION<br>CLARIFICATION OF DETAILS BY                                                                                                                                              | M. Allen                 | June 1973 |
| 7. BOUNDARIES AND LIMITS<br>SURVEYED OR IDENTIFIED BY                                                                                                                                           | N.A.                     |           |

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED  
None2. VERTICAL CONTROL IDENTIFIED  
N.A.

| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
|--------------|--------------|--------------|---------------------|
|              |              |              |                     |

## 3. PHOTO NUMBERS (Clarification of details)

71E(C)6283 and 6284

## 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)

A field edit report and two field edit ozalids.

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00286  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

| COMPILATION STAGES                          |           |                                    | DATE MANUSCRIPT FORWARDED |                  |
|---------------------------------------------|-----------|------------------------------------|---------------------------|------------------|
| DATA COMPILED                               | DATE      | REMARKS                            | MARINE CHARTS             | HYDRO SUPPORT    |
| Compilation complete<br>pending field edit. | May 1972  | Class III manuscript<br>Superseded | May 19,<br>1972           | May 18,<br>1972  |
| Field edit applied,<br>compilation complete | Aug. 1974 | Class I<br>manuscript              | Nov. 15,<br>1974          | Aug. 14,<br>1974 |
|                                             |           |                                    |                           |                  |
|                                             |           |                                    |                           |                  |

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER<br>NUMBER ASSIGNED | DATE<br>FORWARDED | REMARKS                                                   |
|--------|---------------------------------|-------------------|-----------------------------------------------------------|
| 1      | #85074 07/15/74                 | 10 July 74        | Appropriate forms 76-40 are attached<br>with this report. |
|        |                                 |                   |                                                           |
|        |                                 |                   |                                                           |
|        |                                 |                   |                                                           |
|        |                                 |                   |                                                           |
|        |                                 |                   |                                                           |

2. ☒ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 10 July 1974  
 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)

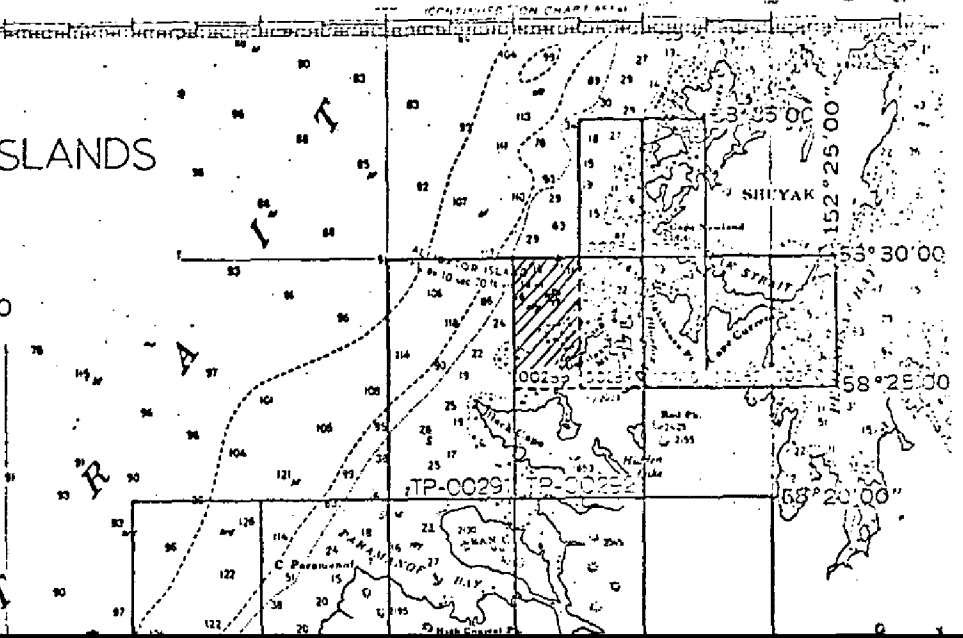
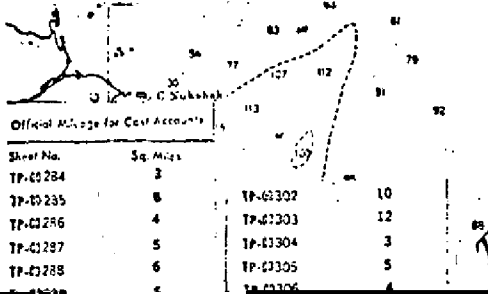
|                   |                                 |                          |                                                                                                                                                                                                                                                         |
|-------------------|---------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SECOND<br>EDITION | SURVEY NUMBER<br>TP - _____ (2) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><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<br>EDITION  | SURVEY NUMBER<br>TP - _____ (3) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><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<br>EDITION | SURVEY NUMBER<br>TP - _____ (4) | JOB NUMBER<br>PH - _____ | TYPE OF SURVEY<br><input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY<br>MAP CLASS<br><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



## 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.

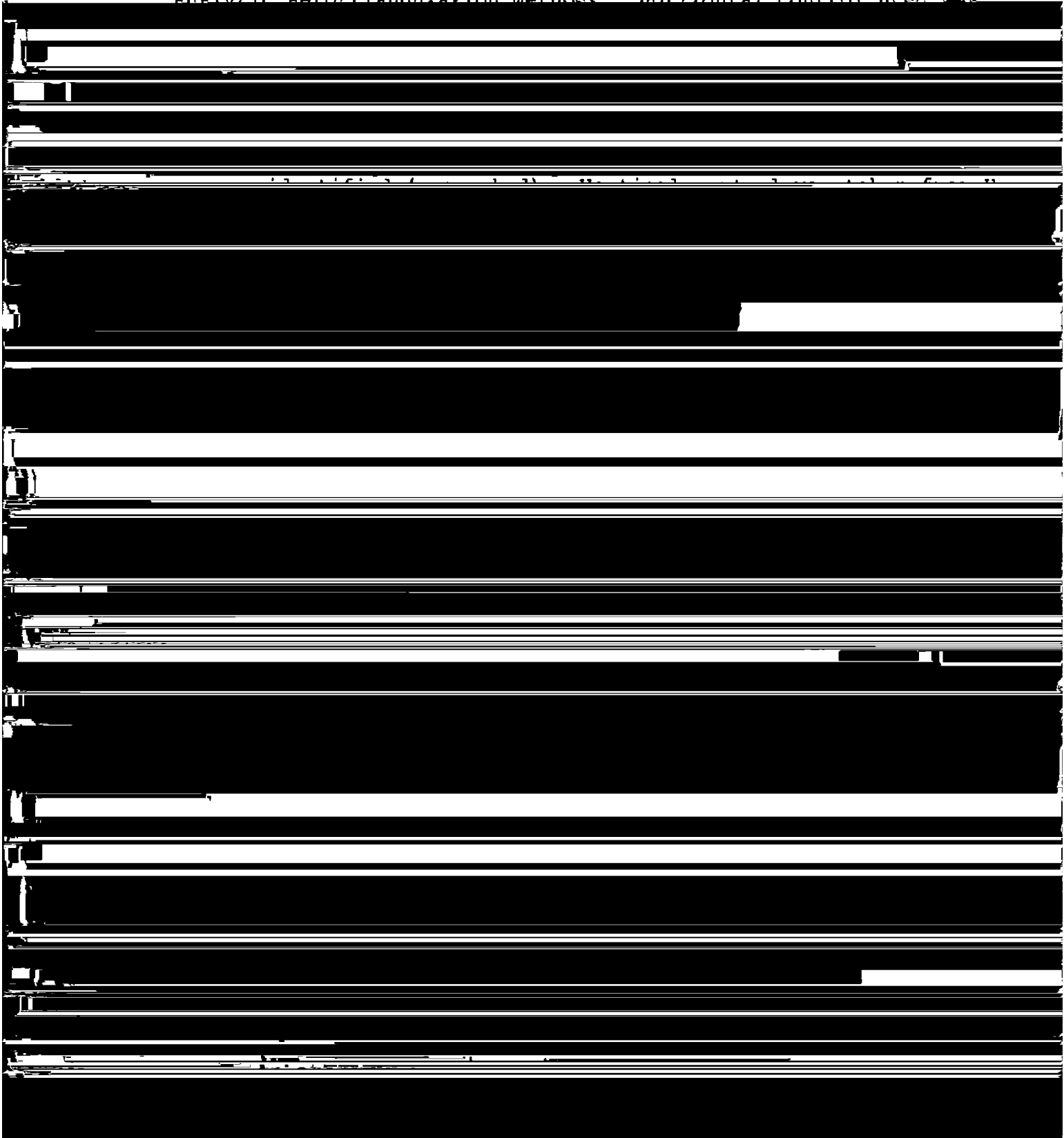
The purpose of the project was to provide shoreline data for maintenance of the Nautical Charting Program and in support of hydrographic survey operations planned for the area.

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 INSPECTION

PH-7017

TP-00286

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

PHOTOGRAMMETRIC PLOT REPORT  
Afognak Island, Alaska Part I  
Job PH-7071-17  
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

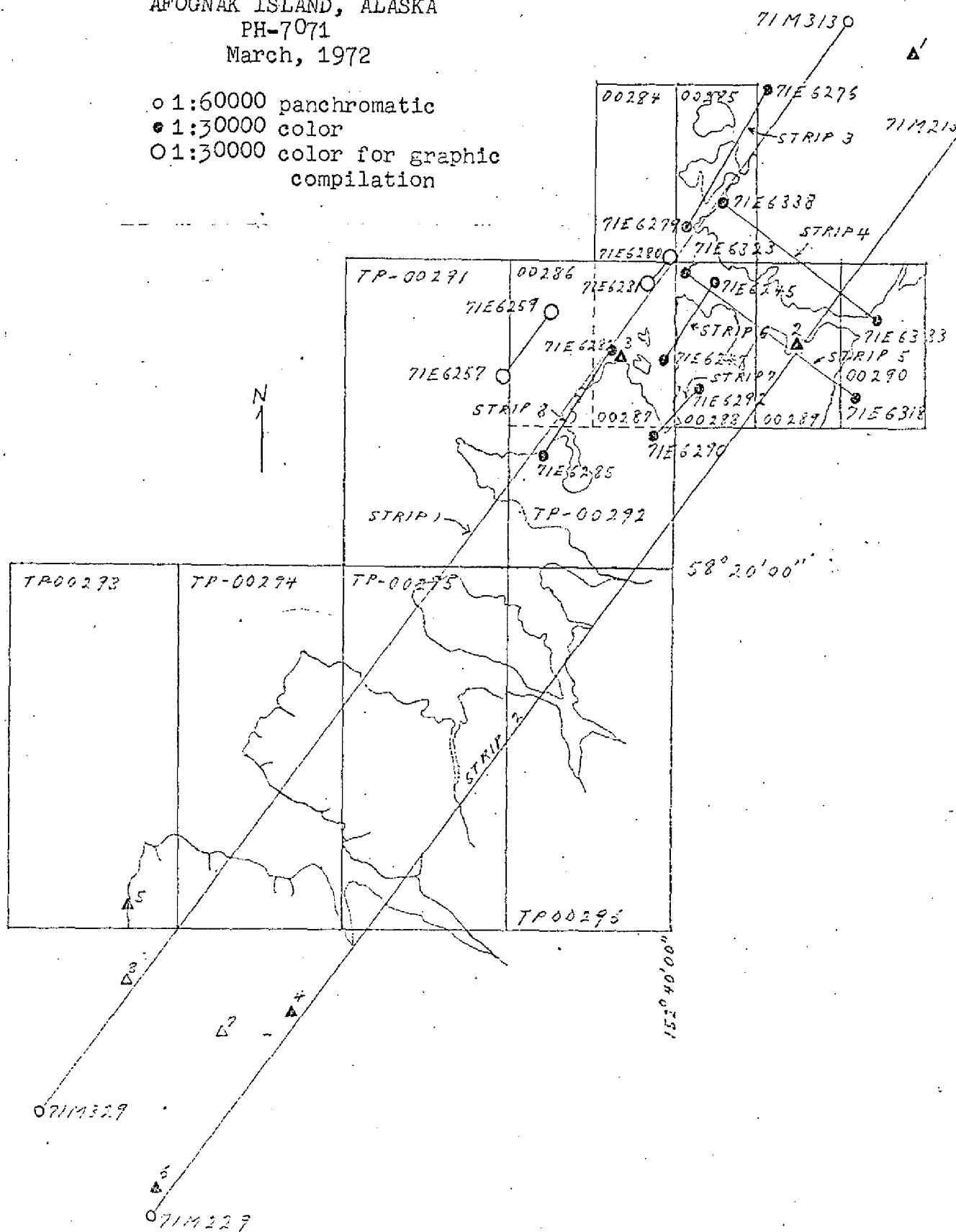
|       |               |
|-------|---------------|
| 82801 | (-2.2, +0.6)  |
| 82802 | ( 0.0, 0.0)   |
| 84801 | ( 0.0, 0.0)   |
| 85801 | (-10.7, +4.6) |
| 85802 | ( 0.0, 0.0)   |

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

- ```

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

```



## DESCRIPTIVE REPORT CONTROL RECORD

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

| MAP NO.            | STATION NAME | JOB NO.                       | GEODETTIC DATUM                |                                               | ORIGINATING ACTIVITY                                          |                      |
|--------------------|--------------|-------------------------------|--------------------------------|-----------------------------------------------|---------------------------------------------------------------|----------------------|
|                    |              |                               | PH-7017                        | North American 1927                           | Geographic Position                                           | Coastal Mapping, AMC |
|                    |              | Source of Information (Index) | Aerotriangulation Point Number | Coordinates in Feet<br>STATE Alaska<br>ZONE 5 | Geographic Position<br>$\phi$ LATITUDE<br>$\lambda$ LONGITUDE | REMARKS              |
| TP-00286           | AL, 1926     | G.P. Vol.<br>V                | -                              | X=                                            | $\phi$ 58° 28' 35.248"                                        |                      |
|                    |              | Pg. 515                       |                                | Y=                                            | $\lambda$ 152° 57' 12.007"                                    |                      |
| TOM, 1926          |              | G.P. Vol.<br>V                | -                              | X=                                            | $\phi$ 58° 26' 31.359"                                        |                      |
|                    |              | Pg. 515                       |                                | Y=                                            | $\lambda$ 152° 45' 47.684"                                    |                      |
| GRASSY, 1926       |              | G.P. Vol.<br>V                |                                | X=                                            | $\phi$ 58° 27' 05.388"                                        |                      |
|                    |              | Pg. 515                       |                                | Y=                                            | $\lambda$ 152° 46' 47.615"                                    |                      |
| ROCK, 1926         |              | G.P. Vol.<br>V                |                                | X=                                            | $\phi$ 58° 29' 42.977"                                        |                      |
|                    |              | Pg. 495                       |                                | Y=                                            | $\lambda$ 152° 46' 48.824"                                    |                      |
|                    |              |                               |                                | 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        |              |                               | DATE                           | COMPUTATION CHECKED BY                        |                                                               | DATE                 |
| LISTED BY A. Rauck |              |                               | DATE Apr. 1972                 | LISTING CHECKED BY F. Margiotta               |                                                               | DATE MAY 1972        |
| HAND PLOTTING BY   |              |                               | DATE                           | HAND PLOTTING CHECKED BY                      |                                                               | DATE                 |

## COMPILATION REPORT

TP-00286

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter. The photography was good. 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:

Because the stage of tide of the photographs is near 9 ft., only the mean high water line, bare rocks, and those rocks believed to be awash at or near mean high water were shown.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

Appropriate copies of forms 76-40 for one non-floating aid have been forwarded to the Rockville, Md. office on July 10, 1974.

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 (B-3), Alaska, scale 1:63,360, dated 1954.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following: 8573, scale 1:20,000, 3rd edition, dated June 16, 1969.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

15/

Richard R. White  
Cartographic Technician  
May 12, 1972

Approved:

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

ADDENDUM TO COMPILATION REPORT

TP-00286

FIELD EDIT:

Field edit was adequate. All questions asked were answered.

## FIELD EDIT REPORT

OPR-478-73

NOAA SHIP RAINIER

CDR. K.W. JEFFERS,  
Commanding

#### INTRODUCTION METHODS

Field edit was accomplished by personnel of the NOAA SHIP RAINIER, between 15 May and 19 August 1973. Work was done in a sixteen foot skiff, making landings where it was necessary to verify shoreline character.

Field edit work was begun in the area north of Black Cape, on Afognak Island, at the mouth of Devil Inlet, and extended southwestward to the landward end of the main part of Malina Bay. The shoreline from Cape Paramanof to Cape Tanaak was not inspected. See the reference sketch of field editing completed for precise delineation of work accomplished. Field editing was completed on manuscripts TP-00291, TP-00292, and TP-00296. Field editing was begun but not finished on manuscripts TP-00294 and TP-00295. No field edit was done on manuscript TP-00293.

All additions and corrections are noted in purple on the field edit discrepancy sheets and in red on the field edit film ozalids. Deletions are noted or accented in green. Photographs used in this field edit were from PH-7017. Values for distances to the mean high water line and rock heights were estimated. All time observations are referenced to 135° West longitude.

Following the text is an appendix comprised of:

- 1) Sketch of field edited shoreline
- 2) List of detached positions
- 3) Complete listing of photo-hydro signal tape
- 4) Copies of triangulation recovery notes for stations used for photo-hydro control

#### ADEQUACY OF COMPILATION

The compilation of the mean high water line was generally good. Compilation of offshore and foreshore features was often incomplete; several rocks readily identifiable on the photographs were omitted. Time and height data for these items are have been included on the photographs.

#### DISCUSSTION AND RECOMMENDATIONS

TP-00286 (completed) No special recommendations are required.

TP-00291 (completed) No special recommendations are required.

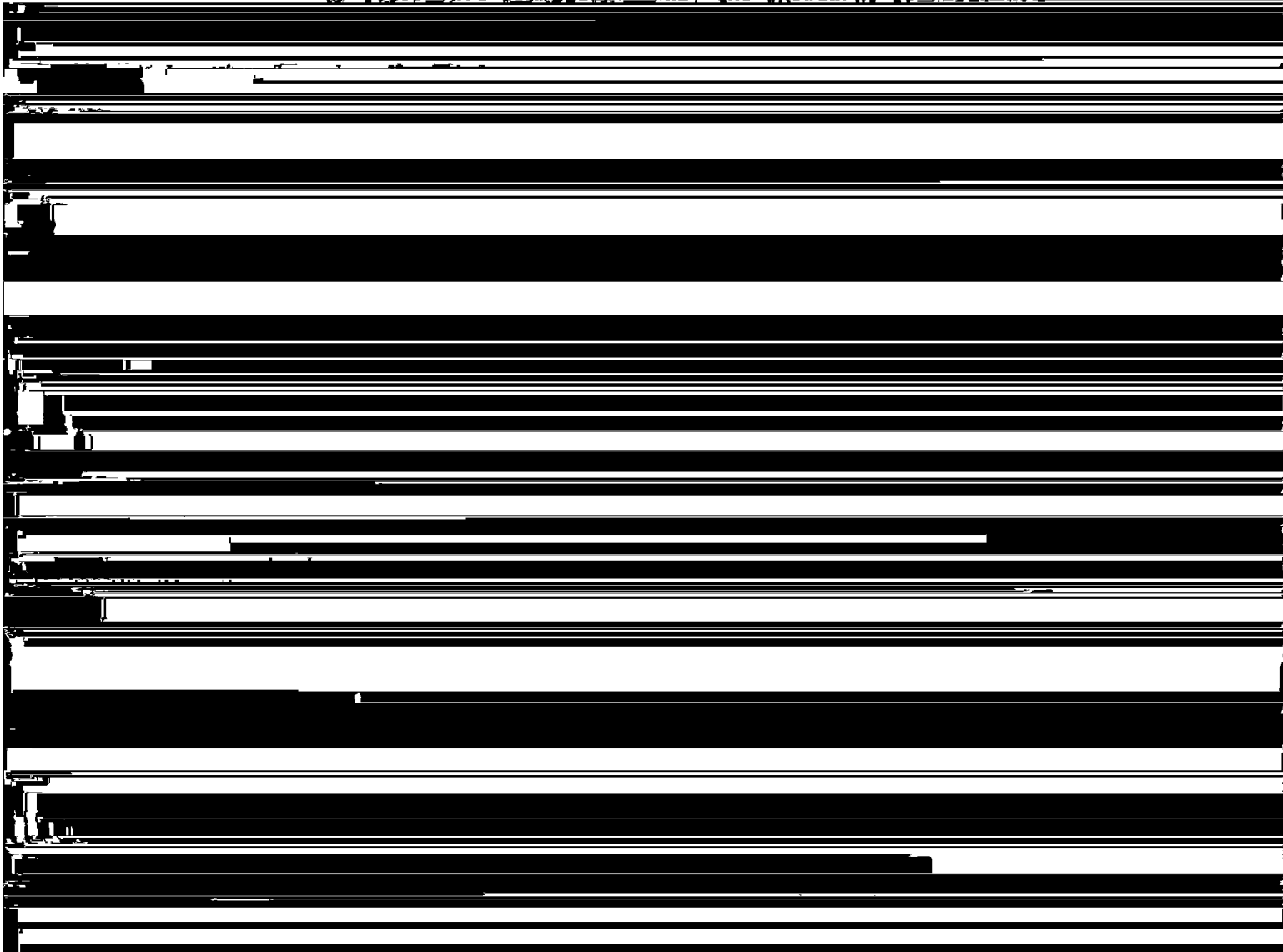
TP-00292 (completed) No special recommendations are required.

TP-00293, No field edit was done on this sheet.

TP-00294 (not completed) The shoreline of Paramanof Bay on this sheet was field edited as far west as Cape Paramanof. No field edit was done from Cape Paramanof to Tanaak Cape. The shoreline from Tanaak Cape eastward to  $153^{\circ} 00'00''$ W longitude was field edited, as well as the southern shore of Malina Bay between  $153^{\circ} 01'00''$  and  $153^{\circ} 02'00''$ W longitude. The rest of the

shoreline of Malina Bay was not inspected. No special recommendations are required.

TP-00295 (not completed) Only the shoreline of Paramanof Bay



TP-00296 (completed) No special recommendations are required.

respectfully submitted,

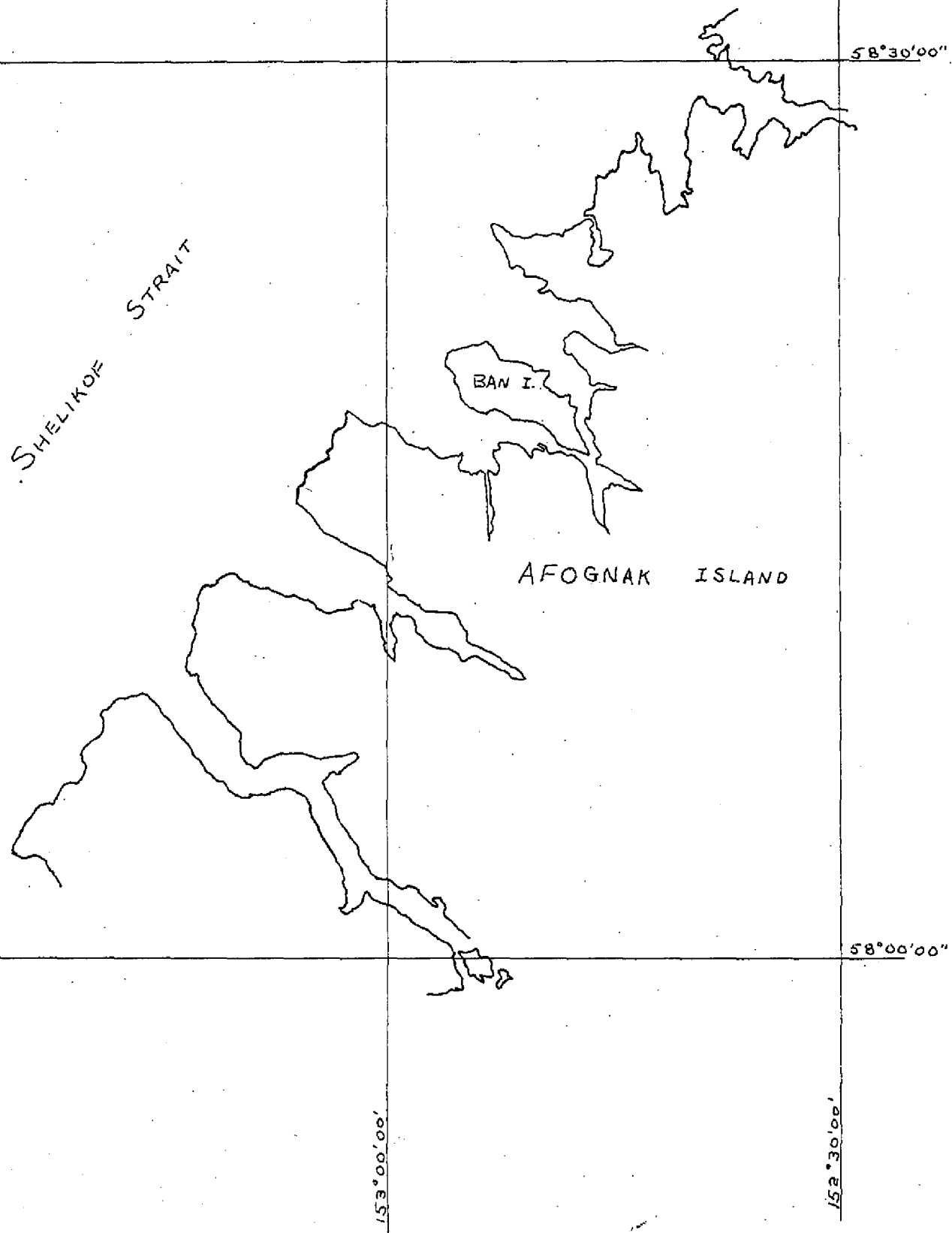
M.H. ALLEN

## APPROVAL SHEET

The Field Edit Report is approved as submitted.

*K. W. Jeffers*  
K.W. Jeffers  
Commander, NOAA

OPR-478, 1973 - FIELD EDITED SHORELINE-INDICATED IN BLACK



Review Report  
TP-00286

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

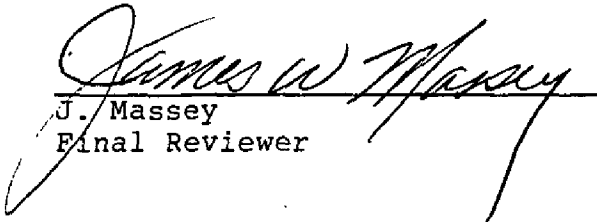
This map meets the National Standards of Map Accuracy and the requirements specified in the project instructions.

67. Delineation

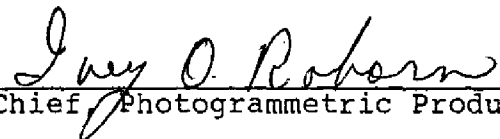
Delineation was accomplished using a Wild B-8 stereoplotter through application of standard mapping techniques. This was supplemented by an office interpretation and graphic application of the ratioed, 1:30,000-scale natural color photographs.

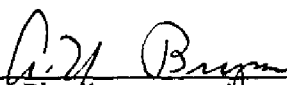
Submitted by,

\_\_\_\_\_  
D. Butler  
Office Reviewer

  
\_\_\_\_\_  
J. Massey  
Final Reviewer

Approved by,

  
\_\_\_\_\_  
Acting Chief, Photogrammetric Production Section

 CDR, NOAA  
\_\_\_\_\_  
Chief, Photogrammetry Branch

December 13, 1971

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-7017 (Alaska)

TP-00286

Afognak Island ✓

Alligator Island ✓

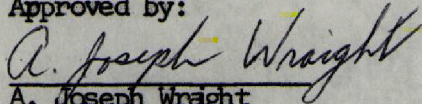
~~Chugach National Forest~~ gum

Grassy Island ✓

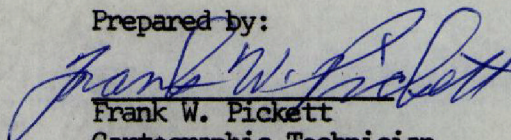
Rocky Island ✓

Shelikof Strait ✓

Approved by:

  
A. Joseph Wright  
Chief Geographer

Prepared by:

  
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



| RESPONSIBLE PERSONNEL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| TYPE OF ACTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NAME                        |
| OBJECTS INSPECTED FROM SEAWARD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | M. Allen, Ens., NOAA        |
| POSITIONS DETERMINED AND/OR VERIFIED                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | M. Allen, Ens., NOAA        |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | H. Bazell, Cartographic Aid |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF<br>(Consult Photogrammetric Instructions No. 64.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
| <b>OFFICE</b><br><b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b><br>Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object.<br>EXAMPLE: 75E(C)6042<br>8-12-75                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |
| <b>FIELD</b><br><b>I. NEW POSITION DETERMINED OR VERIFIED</b><br>Enter the applicable data by symbols as follows:<br>F - Field                      P - Photogrammetric<br>L - Located                  Vis - Visually<br>V - Verified<br>1 - Triangulation            5 - Field identified<br>2 - Traverse                6 - Theodolite<br>3 - Intersection            7 - Planetable<br>4 - Resection               8 - Sextant<br>A. Field positions* require entry of method of location and date of field work.<br>EXAMPLE: F-2-6-L<br>8-12-75<br>*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. |                             |
| <b>FIELD (Cont'd)</b><br><b>B. Photogrammetric</b><br>entry of date of photograph used<br>EXAMPLE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                             |
| <b>II. TRIANGULATION</b><br>When a triangulation Rec. is with<br>EXAMPLE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                             |
| <b>III. POSITION VERIFICATION</b><br>Enter 'V+V'<br>EXAMPLE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |
| **PHOTOGRAMMETRIC<br>entirely, or<br>by photogrammetry                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |

## RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. TP-00286

## 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.

[illegible]