

TP-00824

TP-00824

| | |
|---|------------------|
| NOAA FORM 76-35 (6-80) | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| DESCRIPTIVE REPORT | |
| Map No. TP-00824 | Edition No. 1 |
| Job No. CM-7412 | |
| Map Classification CLASS III FINAL | |
| Type of Survey SHORELINE | |
| LOCALITY | |
| State ALASKA | |
| General Locality COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS | |
| Locality EAST CHUGACH ISLAND | |
| 1975 TO 1984 | |
| REGISTERED IN ARCHIVES | |
| DATE | |

| | | | | | |
|--|--|--|-----------------------------------|--|--|
| NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN. | | TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | | SURVEY TP. 00824 MAP EDITION NO. (1) MAP CLASS III. Final JOB PH. CM-7412 | |
| DESCRIPTIVE REPORT - DATA RECORD | | | | | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA | | LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | | | |
| OFFICER-IN-CHARGE Roy K. Matsushige | | JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__ | | | |
| I. INSTRUCTIONS DATED | | | | | |
| 1. OFFICE | | | 2. FIELD | | |
| Aerotriangulation - North Sect Oct. 6, 1975 Aerotriangulation - South Sect Oct. 4, 1976 Compilation - North Sect May 3, 1976 Amendment I Aug. 17, 1976 Amendment II Jan. 14, 1977 Compilation - South Sect Aug. 2, 1979 | | | Premarking May 6, 1975 | | |
| II. DATUMS | | | | | |
| 1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN | | | OTHER (Specify) | | |
| 2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL | | | OTHER (Specify) | | |
| 3. MAP PROJECTION Transverse Mercator | | | 4. GRID(S) STATE Alaska ZONE 4 | | |
| 5. SCALE 1:20,000 | | | STATE ZONE | | |
| III. HISTORY OF OFFICE OPERATIONS | | | | | |
| OPERATIONS | | NAME | | DATE | |
| 1. AEROTRIANGULATION BY METHOD: Analytic (south sect) LANDMARKS AND AIDS BY | | B. Thornton J. Perrow, Jr. | | Jan. 1977 Jan. 1977 | |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY | | B. Thornton J. Perrow, Jr. | | Jan. 1977 Jan. 1977 | |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY | | F. Margiotta L. Neterer N.A. N.A. | | Sept. 1979 Sept. 1979 | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY CONTOURS BY CHECKED BY METHOD: Smooth drafted and graphic HYDRO SUPPORT DATA BY SCALE: 1:20,000 CHECKED BY | | F. Margiotta J. Roderick N.A. N.A. F. Margiotta J. Roderick | | Oct. 1979 Oct. 1979 Oct. 1979 Oct. 1979 | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | J. Roderick | | Oct. 1979 | |
| 6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY | | C. Blood J. Byrd, Jr. | | Jan. 1985 Feb. 1985 | |
| 7. COMPILATION SECTION REVIEW Class III BY | | J. Byrd, Jr. | | Feb. 1985 | |
| 8. FINAL REVIEW Final Class III BY | | C. Blood /Jr. Byrd, Jr. | | Apr. 1985 | |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | J. Byrd, Jr. | | Nov. 1985 | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | P. Dempsey | | MAY 1986 | |
| 11. MAP REGISTERED - COASTAL SURVEY SECTION BY | | E. DAUGHERTY | | MAY 86 | |

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

TP-00824

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|--|---------------|---|----------|---|--|
| CAMERA(S) Wild RC 8E 152.71 mm Wild RC 10C 152.74 mm | | TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED | | TIME REFERENCE ZONE Alaska MERIDIAN 150th | |
| TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| * 75C(C) 7186-7189 | Aug. 3, 1975 | 10:22 | 1:60,000 | 13.1 feet above MLLW | |
| ** 76E(I) 4355-4359 | Jun. 26, 1976 | 08:24 | 1:30,000 | Tide-coordinated at MLLW | |
| ** 76E(I) 4276-4280 | Jun. 25, 1976 | 07:31 | 1:30,000 | Tide-coordinated at MLLW | |
| # 76E(I) 4730-4731 | Jun. 27, 1976 | 09:48 | 1:30,000 | 1.1 feet below MLLW | |
| ## 75E(I) 0680-0683 | Jul. 9, 1975 | 09:23 | 1:30,000 | 0.5 feet above MLLW | |
| ## 75E(I) 0506-0510 | Jul. 8, 1975 | 13:23 | 1:30,000 | Tide-coordinated at MHW | |
| ## 75E(I) 0499-0502 | Jul. 8, 1975 | 13:12 | 1:30,000 | Tide-coordinated at MHW | |
| ## 75E(I) 0513-0515 | Jul. 8, 1975 | 13:30 | 1:30,000 | 16.6 feet above MLLW | |
| ## 75E(I) 0549-0550 | Jul. 8, 1975 | 14:02 | 1:30,000 | 16.0 feet above MLLW | |
| ## 75E(I) 0545 | Jul. 8, 1975 | 13:55 | 1:30,000 | 16.3 feet above MLLW | |

REMARKS ## These photographs were not necessary for compilation; Mean tide range
so most were not processed. *Bridging/compilation photography. 13.0 ft. Port Chatham.
**Tide-coordinated photography at MLLW. #MLLW photography
(Processed and used for compilation). MHW at Port Chatham is 13.5 feet above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The MHW Line was compiled from the above listed bridging and compilation photography.

3. SOURCE OF MEAN LOW-WATER LINE OR MEAN LOWER LOW-WATER LINE:

#The MLLW Line was compiled from the above listed MLLW tide-coordinated photography.

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 | No survey | No survey | TP-00823 |

REMARKS
(TP-00822 deleted.)

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

TP-00824

HISTORY OF FIELD OPERATIONS

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

| OPERATION | NAME | DATE |
|-------------------------------------|--|---|
| 1. CHIEF OF FIELD PARTY | R. Melby | Jun. 21, 1977 |
| 2. HORIZONTAL CONTROL | RECOVERED BY R. Melby ESTABLISHED BY R. Melby PRE-MARKED OR IDENTIFIED BY L. Riggers | Jun. 21, 1977 Jun. 21, 1977 Jun. 21, 1977 |
| 3. VERTICAL CONTROL | RECOVERED BY None ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None LOCATED (Field Methods) BY R. Melby IDENTIFIED BY None | Jun. 1977 |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY None | |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY N. A. | |

II. SOURCE DATA

| | | | |
|--|---------------------|--|---------------------|
| 1. HORIZONTAL CONTROL IDENTIFIED Paneled | | 2. VERTICAL CONTROL IDENTIFIED None | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| 75C(C) 7187 | SPIT 2, 1977 | | |
| 75C(C) 7186 | GACH, 1977 | | |
| 75C(C) 7187 | EST. 1931 sub point | | |
| 3. PHOTO NUMBERS (Clarification of details) 75C(C) 7186 and 7187 | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None | | | |
| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
| | | | |
| 5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | | 6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE | |
| 7. SUPPLEMENTAL MAPS AND PLANS None | | | |
| 8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) 4 Forms 76-53, 2 Form 152, 1 Form 76-61A, 1 Form 76-45 | | | |

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

TP-00824

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|---|----------------------|
| 1. CHIEF OF FIELD PARTY | J. Vandermeulen | Aug. 1984 |
| 2. HORIZONTAL CONTROL | RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | None None None |
| 3. VERTICAL CONTROL | RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY | None None None |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY | None None None |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY | None |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY | None |

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

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

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

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

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

Undated Descriptive Report by Steven Konrad
Master Field Edit Print

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONTP-00824
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 | Oct. 1979 | Class III Manuscript | Oct. 26, 1979 | Nov. 16, 1979 |
| Field edit (partial) Field edit applied | Feb 1985 | Class III | | |
| Final Review | April 1985 | Final Class III Map | Mar 1986 | Mar 1986 |
| | | | | |

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

| NUMBER | CHART LETTER NUMBER ASSIGNED | DATE FORWARDED | REMARKS |
|--------|---------------------------------|-------------------|------------------|
| 1 | | Mar 1986 | Nonfloating Aids |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☒ FORM NOS 76-40 SUBMITTED BY FIELD PARTIES.
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.
 ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

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

OFFICIAL MILEAGE FOR COST ACCOUNTS

| SHEET No. | Sq. Mi. | SHEET No. | Sq. Mi. |
|-----------|---------|-----------|---------|
| TP-00793 | N | TP-00810 | 17 |
| TP-00794 | | TP-00811 | 17 |
| TP-00795 | | TP-00812 | |
| TP-00796 | | TP-00813 | |
| TP-00797 | | TP-00814 | |
| TP-00798 | | TP-00815 | |
| TP-00799 | | TP-00816 | |
| TP-00800 | | TP-00820 | 18 |
| TP-00801 | | 18 | 18 |
| TP-00802 | | | |
| TP-00803 | | | |
| TP-00804 | | | |
| TP-00805 | | | |
| TP-00806 | | | |
| TP-00807 | | TP-00823 | 19 |
| TP-00808 | | TP-00824 | |
| TP-00809 | | TP-00825 | |
| | | TP-00826 | |
| | | TOTAL | 19 1/2 |

REVISED 9/23/75 E.W.L.
6/13/79 L.F.V.

JOB CM-7412

COOK INLET, EAST SIDE
CAPE KASLOF TO BARREN ISLANDS
ALASKA

SHORELINE MAPPING
SCALE 1:5,000-1:10,000-1:20,000

MARCH 1974

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-00824

This 1:20,000 Class III shoreline map is one of twenty-nine maps designated as project CM-7412, Cook Inlet, East Side, Cape Kasilof to Barren Islands, Alaska.

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Class III Map portrays the Chugach Islands east of Longitude 151 40'00".

Field work prior to compilation consisted of the recovery and establishing horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in June 1976.

Photograph coverage was adequately provided by natural color and infrared tide coordinated photographs. The RC-10(C) camera was used to expose the color film required for the 1:60,000 scale aerotriangulation, compilation photographs August 1975. The RC-8(E) camera was used for the infrared black and white 1:30,000 scale photographs June 1976. The infrared photographs were used to supplement the color compilation photography.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the south part of the project January 1977. Aerotriangulation operations included ruling the base manuscript and determining ratio values for the infrared photographs.

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center, October 1979. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photographs.

Field edit for this manuscript is incomplete; the northeast shore of East Chugach Island was not field edited and is the reason for this manuscript's classification Class III Map. The field edit for the remaining map area is complete and was conducted in July 1984 by hydrographic personnel assigned to the NOAA Ship RAINIER.

All supplied field edit material has been applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in February 1985.

Final review was performed at the Atlantic Marine Center in February 1985. A Chart Maintenance Print was prepared and forwarded to the Marine Charts Branch.

This Descriptive Report contains all pertinent information used to compile this Final Class III Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00824

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification (premarking) of the horizontal control necessary for the aerotriangulation of the project and the monitoring of tide gages for the tide coordinated infrared photographs.

Photogrammetric Plot Report
Cape Kasilof to Barren Islands

Job CM-7412
South ~~Part~~
January 1977

Job index was revised June 13, 1979
Number of sheets compiled, revised
March 7, 1984 C.E.B.

Area Covered

The area covered by this report is the south central coastal area of Cook Inlet, Alaska, from ~~Cape Kasilof~~ ^{Kachemak Bay} to Barren Island. This area is covered by ~~six~~ ^{ten} 1:20,000 scale sheets, ~~eight~~ ^{ten} 1:10,000 scale sheets, and ~~seven~~ ^{ten} 1:5,000 scale sheets.
~~Canceled~~

Method

Nine strips (four 1:60,000 scale, five 1:30,000 scale) of bridging photography were measured by analytic aerotriangulation methods. The nine strips of bridging photography were controlled by field identified control including some additional points drilled and tied from the 1:60,000 scale photography to the 1:30,000 scale photography where field identified control was inadequate for a satisfactory strip adjustment.

Common points were located on the bridging photography and the tide controlled IR for ratio purposes. Tie points were used in all strips to insure an adequate junction of all strips during the strip adjustments. Ties to the compilation photography were made also.

The manuscripts are being plotted on the coradomat and will be sent upon completion.

Ratios have been ordered for the MHW and MLLW (1-6-77). A copy of this order will be included in this report.

Adequacy of Control

Several stations (Tutka-000158, Halibut Cove Light, Panel - 12101, Table Mtn., Panel-178101) were bad due to snow coverage or other reasons which made it difficult to obtain an adjustment adequate to N.M.A.S.

Strip #1, 76-C(C) 4975 thru 4987 was terminated early when flown, (planned originally to extend from sheet 801 thru 823) which gave us weak and poorly distributed control to properly check and strengthen overlapping strips.

There was a problem with the "C" camera, which was used for several of the bridging strips, that introduced a random error into the strip adjustments. This problem was bypassed by removing the correction values for film distortion in the strip adjustments.

In conclusion, with all the problems encountered and their respective errors introduced into the job, the adequacy of control overall is fair.

Supplemental Data

USGS quadrangles were used to provide vertical control for the strip adjustments.

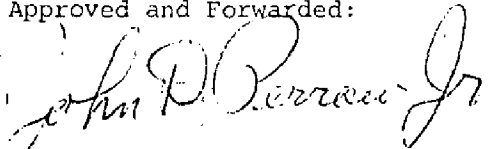
Photography

The coverage, overlap and quality of the photography was adequate for the job with the exception of the above mentioned "C" camera.

Submitted by:

Brian Thornton

Approved and Forwarded:



Chief, Aerotriangulation Section

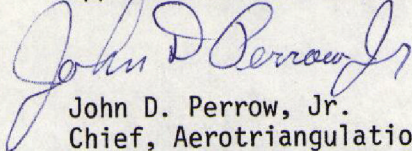
Supplement to
Photogrammetric Plot Report
Cape Kasilof to Barren Islands
Job CM-~~7410~~ (1/77)
~~7412~~
February 1977

Sheet TP-00824 has been omitted due to lack of control for a strip adjustment. A final decision as to the cancellation of that sheet from the project altogether will be made at a later date.

Submitted by:

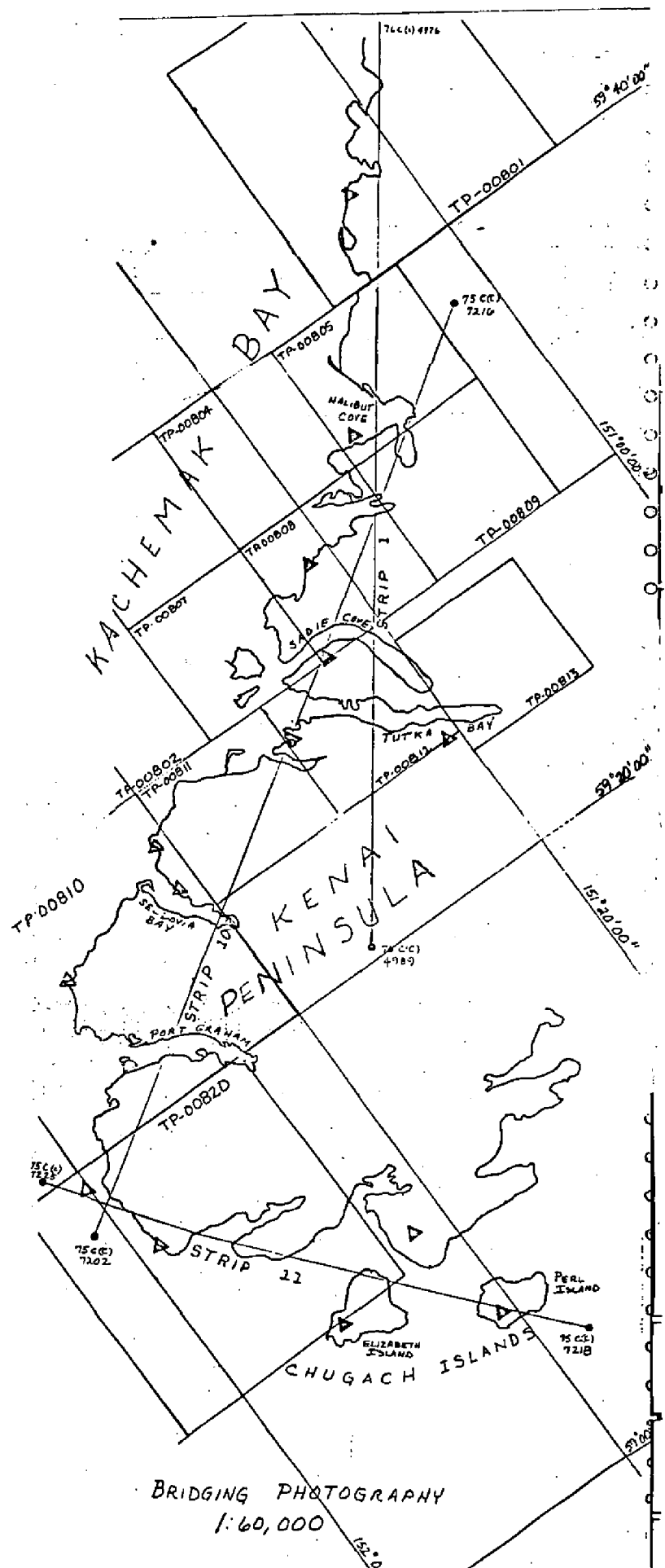
Brian Thornton
Cartographer

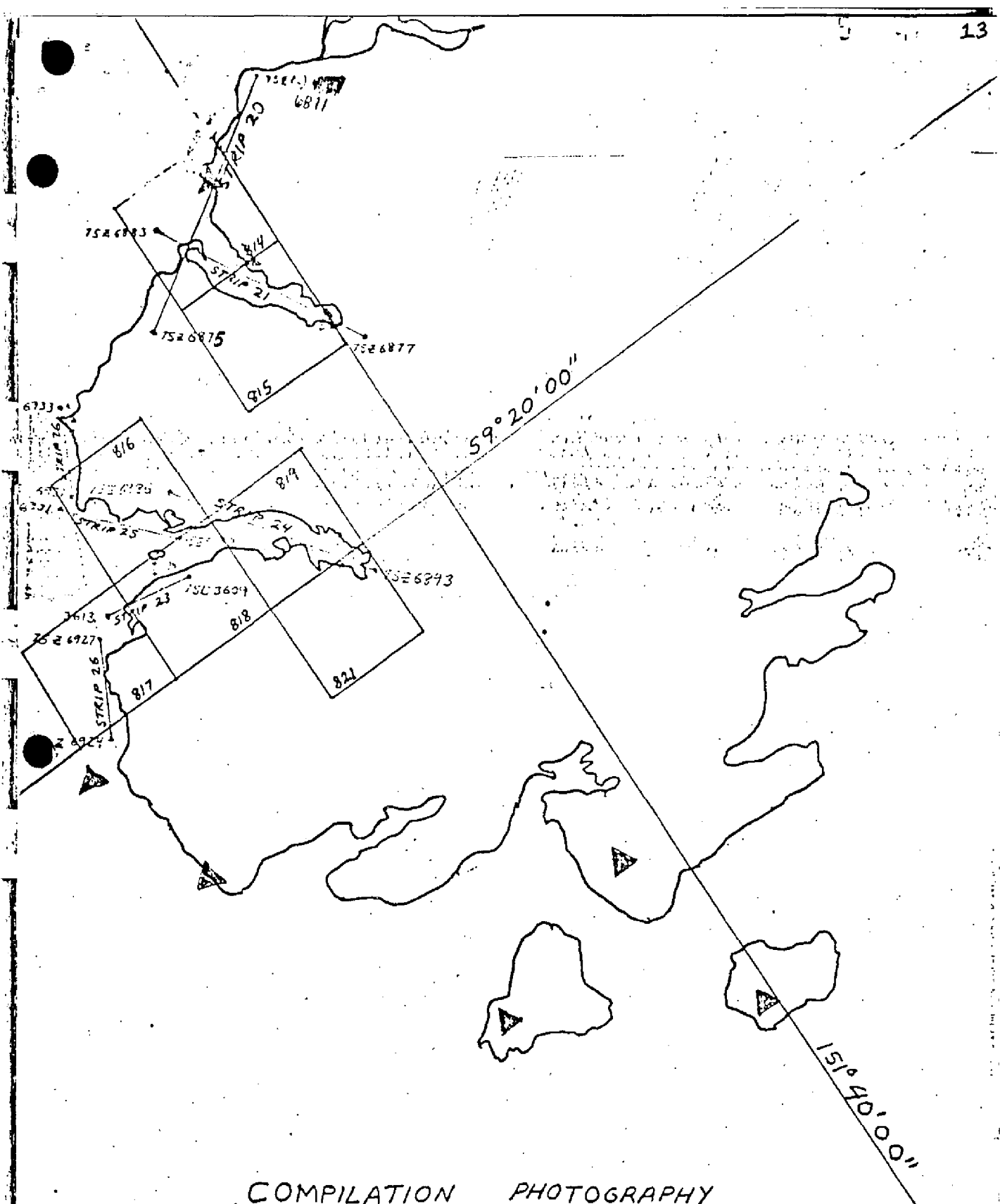
Approved and Forwarded:



John D. Perrow, Jr.
Chief, Aerotriangulation Section

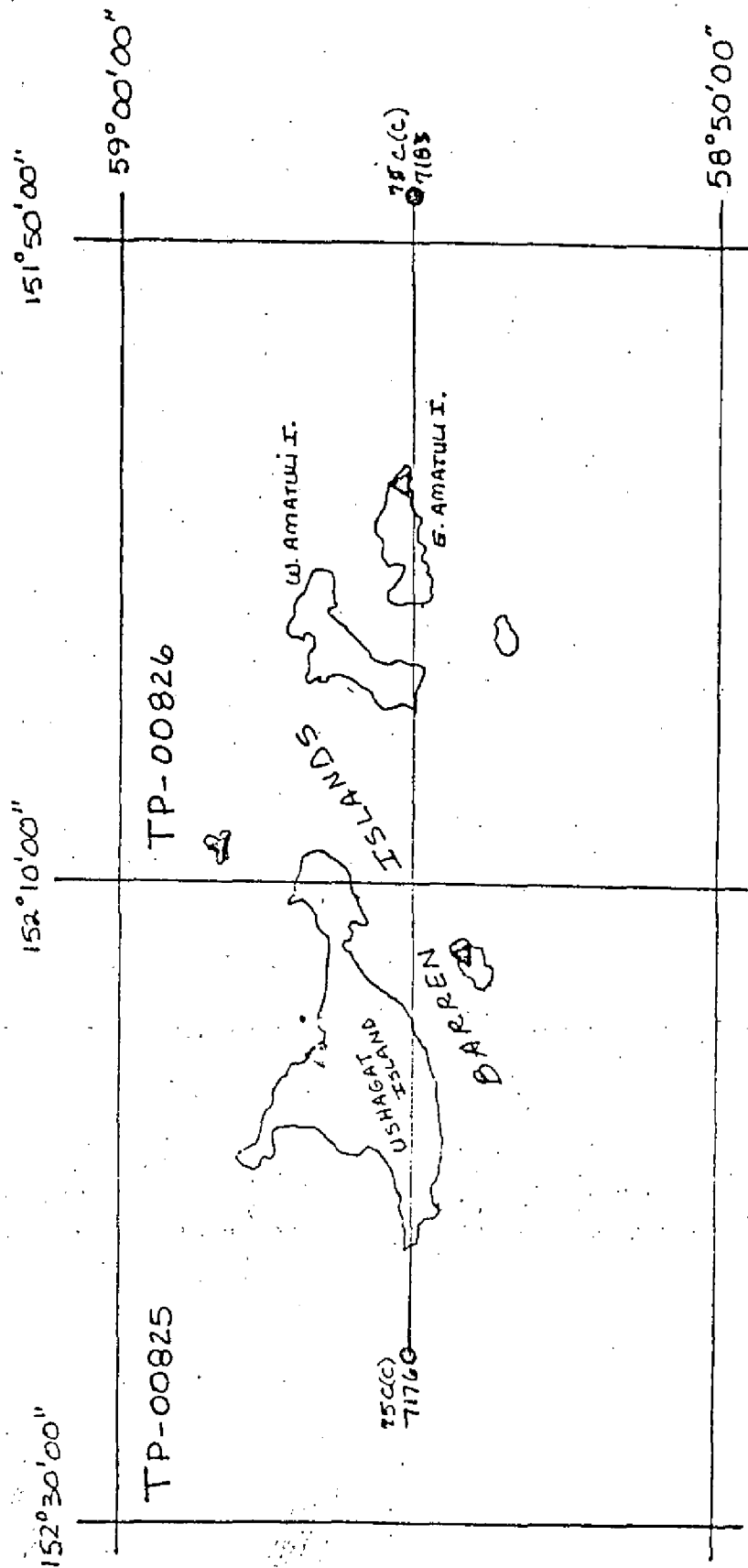
Sheet Compiled from field identified control.





COMPILATION PHOTOGRAPHY

1:15,000



BRIDGING 1:69,000

1:20,000

STRIP 12

Test and Accuracy of Control Used in Strip Adjustment

x-error y-error

Strip #1

| | | |
|--------|--------|--------|
| 310100 | 1.092 | -.446 |
| 307100 | -3.443 | 1.765 |
| 12100 | .803 | -1.021 |
| 984100 | 2.971 | -.047 |
| 977101 | -3.278 | -.076 |
| 986101 | 1.253 | .431 |

Strip #10

| | | |
|--------|--------|--------|
| 203100 | -.543 | -3.777 |
| 944100 | 2.985 | 4.840 |
| 206100 | -3.549 | -3.305 |
| 207100 | 1.142 | 5.249 |
| 977101 | .318 | -3.937 |
| 12100 | -.845 | 1.438 |

Strip #12

| | | |
|--------|--------|--------|
| 178101 | 3.435 | 2.681 |
| 179100 | 1.047 | -3.350 |
| 180101 | -4.475 | 1.956 |
| 181100 | .021 | -1.299 |

Dist and Accuracy of Control Used in Strip Adjustment

x-error y-error

Strip #11

| | | |
|--------|--------|--------|
| 219101 | 1.518 | .598 |
| 221100 | -3.964 | .647 |
| 223100 | 3.269 | -3.324 |
| 203100 | -.840 | 2.100 |

Strip #4

| | | |
|--------|-------|-------|
| 975801 | .001 | .006 |
| 977101 | -.001 | -.005 |
| 985805 | .001 | -.003 |

Strip #6

| | | |
|--------|------|-------|
| 206100 | .000 | -.010 |
| 964100 | .001 | -.011 |
| 207100 | .006 | -.007 |

Strip #7

| | | |
|--------|--------|--------|
| 992112 | -3.929 | -1.672 |
| 941100 | 1.088 | 3.253 |
| 964100 | -.570 | -.973 |
| 169 | -1.089 | -.030 |

List and Accuracy of Controls Used in Strip Adjustment

4-error

y-error

Strip #8

| | | |
|--------|--------|--------|
| 944100 | -1.785 | -2.540 |
| 944100 | 1.521 | -1.094 |
| 203100 | -1.481 | -.632 |
| 203802 | 1.826 | -2.245 |

Strip #9

| | | |
|--------|-------|--------|
| 955101 | -.515 | 1.133 |
| 944100 | 3.529 | 2.770 |
| 204803 | -.118 | -.672 |
| 204804 | 1.503 | -1.036 |
| 204806 | -.621 | .619 |

| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION | | | | | | | | | |
|--|------------------|-------------------------------|--------------------------------|--------------------------|--------------------------|---------------------|--------------------|------------------------|--------------------------|
| DESCRIPTIVE REPORT CONTROL RECORD | | | | | | | | | |
| MAP NO. | JOB NO. | GEODETTIC DATUM | | COORDINATES IN FEET | | GEOGRAPHIC POSITION | | ORIGINATING ACTIVITY | |
| | | | | STATE | ZONE | φ | λ | Unit, AMC, Norfolk, VA | |
| | | SOURCE OF INFORMATION (Index) | AEROTRIANGULATION POINT NUMBER | N.A. 1927 Alaska 4 | | φ LATITUDE | λ LONGITUDE | | REMARKS (FORWARD) (BACK) |
| | TP-00824 | CM-7412 | | | | | | | |
| | | | | | | | | | |
| TOP., 1931 | | Quad. 59151 Pg. 21 | 000115 | | | φ 59 05 46.006 | | | 1423.6 (433.0) |
| | | | | | | λ 151 39 27.627 | | | 439.9 (515.4) |
| PERL ISLAND LIGHT, 1931 | | Quad. 59151 Pg. 16 | 000117 | | | φ 59 07 06.525 | | | 201.9 (1654.8) |
| | | | | | | λ 151 38 16.718 | | | 266.0 (688.7) |
| CHUGACH, 1906 | | Quad. 59151 Pg. 5 | 000139 | | | φ 59 07 10.727 | | | 331.9 (1524.8) |
| | | | | | | λ 151 28 00.188 | | | 03.0 (951.6) |
| GACH, 1977 | | Field Position | | | | φ 59 07 13.105 | | | 405.5 (1451.1) |
| | | | | | | λ 151 26 50.221 | | | 799.0 (155.6) |
| SPIT 2, 1977 | | Field Position | | | | φ 59 08 48.777 | | | 1509.3 (347.3) |
| | | | | | | λ 151 31 14.597 | | | 232.1 (721.8) |
| EAST CHUGACH LIGHT, 1977 | | Field Position | | | | φ 59 06 25.024 | | | 774.3 (1082.3) |
| | | | | | | λ 151 26 29.545 | | | 470.3 (484.7) |
| | | | | | | φ | | | |
| | | | | | | λ | | | |
| | | | | | | φ | | | |
| | | | | | | λ | | | |
| | | | | | | φ | | | |
| | | | | | | λ | | | |
| | | | | | | φ | | | |
| | | | | | | λ | | | |
| COMPUTED BY | A. C. Rauck, Jr. | | DATE | 6/21/76 | COMPUTATION CHECKED BY | | J. R. Minton | DATE | 11/05/76 |
| LISTED BY | F. Margiotta | | DATE | 7/12/79 | LISTING CHECKED BY | | L. O. Neterer, Jr. | DATE | 7/12/79 |
| HAND PLOTTING BY | F. Margiotta | | DATE | 7/12/79 | HAND PLOTTING CHECKED BY | | L. O. Neterer, Jr. | DATE | 7/12/79 |

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

COMPILATION REPORT

TP-00824

31 - DELINEATION

Delineation was by the Wild B-8 stereoplotter.

During bridging operations on Feb, 1977, it was believed that this map sheet might be cancelled due to lack of adequate control for an adjustment to strip 13, which covers this map.

Subsequent action had Mr. Melby on June 6, 1977, establish, and photo-identify by pannelling, two new horizontal control stations. They are GACH, 1977 and SPIT 2, 1977, one at each end of East Chugach Island. These were panelled direct and sub. points were also established for both. The third station on the island was sub. point EST 1931 which was panelled on June 21, 1975.

Upon completion of the establishment of GACH and SPIT 2, the photo mission at Anchorage was alerted to fly a triplicate covering the island. This new photography later proved to be un-usable for the following reasons:

1. Photos were flown as a quintet with approximately 80% forward lap.
2. This lap thereby required the area of the island to be covered by 2 models instead of one.
3. No two of the control stations on the island fall within any one model and the sub. point EST. 1931 did not appear on these photos, making it impossible to scale.
4. Only one station was identifiable at each end of the island, and one station in each of the two models.

In order to compile this island, the new photography was dis-regarded and Model 76C(C) 7186 and 7187 which was originally planned for this compilation was set. This model covered the entire island and all three photo-identified sub. points were used to scale the work.

Also established by Mr. Melby in June 1977 was the position of the newly moved EAST CHUGACH LIGHT. This light is not imaged on the 1975 photography and is difficult to see on the 1977 photography.

It is believed that this compilation of EAST CHUGACH ISLAND on this map, utilizing the control furnished, is adequate and meets established standards.

TP-00824

The MHW line was compiled when the 1:60,000 scale bridging photography was set on the Wild B-8 stereoplotter. Although tide-coordinated infrared photography at MHW was available for the area, it was not processed or used for compilation, due to its inferior quality. The MLLW line was compiled graphically using tide-coordinated infrared photography at MLLW and infrared photography at a stage of tide 1.1 feet below MLLW.

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated: January, 1977.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

The shoreline and alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs; see Item 31.

36 - OFFSHORE DETAILS

Offshore rocks and foul areas were delineated by the Wild B-8 stereoplotter as described in Item 31. Infrared low water photography was used to supplement the work done by the stereoplotter.

37 - LANDMARKS AND AIDS

There are 2 fixed aids to navigation and no landmarks within the mapping limits of this manuscript. The charted landmark building is not visible on the photographs.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to Data Record Form 76-36B, Item 5.

TP-00824

40 - HORIZONTAL AND VERTICAL ACCURACY

See Items 31 and 32.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey Quadrangle:

Seldovia (A-5) Alaska, scale 1:63,360, dated 1953

Seldovia (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 charts:

NO. 16606, 1:77,062 scale, dated Oct. 20, 1979

NO. 16645, 1:82,662 scale, dated July 30, 1983.

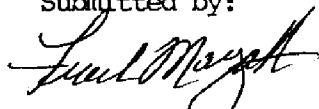
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:



Frank Margiotta
Cartographic Technician
October, 1979

Approved:



Albert C. Rauch, JR.
Chief, Coastal Mapping Section

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH - 7412 (Cook Inlet, East Side - Cape Kasilof to Barren Islands, Alaska)

TP - 00824

Chugach Islands

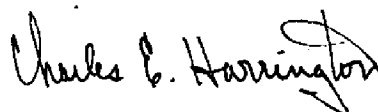
Chugach Passage

East Chugach Island

Gulf of Alaska

Perl Island

Approved by;



Charles E. Harrington
Chief Geographer
Nautical Charting Division

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

| | |
|-------------------------|------------------------|
| FIELD EDIT | |
| Type of Survey | TP-00824 |
| Job No. CM-7412 | Map No. TP-00825 |
| | TP-00826 |
| Classification No. | Edition No. |

LOCALITY

State ALASKA

General Locality SOUTHERN COOK INLET

Locality COOK INLET, EAST SIDE

19 TO 19

REGISTRY IN ARCHIVES

DATE

FIELD EDIT NOTE

OPR-P114-RA-84

Southern Cook Inlet

INTRODUCTION

Field edit for this survey was conducted in accordance with project Instructions OPR-P114-RA-84, Southern Cook Inlet, Alaska, dated February 16, 1984, Change No. 1, dated 27 April, 1984, Change No. 2, dated 21 June, 1984, and Chapter 11, Field Edit Surveys, of the Manual of Coastal Field Procedures. Hydrographic surveys H-10137, H-10033, and H-10149 were conducted concurrently with the field edit work.

METHODS

Field edit was performed almost entirely from small boats. A Boston Whaler was used for general shoreline verification, and one of the RAINIER's survey launches was used as a platform to obtain positions. A small amount of field edit was performed by walking the shoreline, but this was limited due to the ruggedness of the shoreline in the survey area.

All field edit was performed at or near low tide. Minus tides were taken advantage of whenever possible.

The following shoreline manuscripts were provided to the RAINIER:

| <u>Shoreline Map</u> | <u>Scale</u> | <u>Survey Affected</u> |
|----------------------|--------------|------------------------|
| TP-00824 | 1:20000 | H-10033 |
| TP-00825 | 1:20000 | H-10137 |
| TP-00826 | 1:20000 | H-10137, H-10149 |

All features shown on the manuscripts were either verified or deleted, and additions to the manuscripts were made where necessary. All positions on features to be verified or added to the manuscript are part of the hydrographic records. This was done to reduce the possibility of the field editor and the hydrographer taking independent positions on the same feature.

Compiled features were verified visually, or positions were taken if there was some doubt as to the accuracy of the compiled feature.

One stable base copy of each photo was all that was supplied to the RAINIER. An attempt was made to take these photos into the field with disastrous results, due to the generally wet weather encountered. Therefore, the photos had to be left on the ship, and were used only to clarify the data obtained in the field.

All of the field edit data has been depicted on the film ozalid labeled MASTER FIELD EDIT PRINT. All features shown in violet have been verified or added by the field editor. Those features shown in green are to be deleted. All times shown on the manuscripts are GMT.

Positions were determined using T-2 Theodolite, sextant, and Mini-Ranger data. Signals were Third Order, Class 1, or better, geodetic stations.

When comparing the field edit and the hydrography, it was discovered that, in certain areas, hydrography had been run inside the foul limit delineated by the field editor. This was due to the fact that shoreline hydrography is normally run at high tide, while field edit is done at low tide. Since the charting datum is MLLW, it was decided that the field editors' foul limit should supercede the hydrography in these areas.

ADEQUACY AND COMPLETENESS OF COMPILATION

All manuscripts are adequate for the purpose of field edit.

The accuracy of compilation of the manuscripts is good. A few discrepancies need to be pointed out. There were a few instances where the compiler mistook heavy kelp for rocks or islets; these were corrected on the manuscript. Another discrepancy was the use of a series of rock symbols in areas of ledges. In this case, the rock symbols were deleted, and the ledge was delineated on the manuscript. The following table lists the significant discrepancies found, all of which are on TP-00825. The features have all been deleted from the manuscripts, and the chart should be updated accordingly.

| <u>Feature</u> | <u>Latitude</u> | <u>Longitude</u> |
|----------------|-----------------|------------------|
| Rock | 58/54/07 N | 152/21/00 W |
| Islet | 58/54/40 N | 152/21/32 W |
| Rock | 58/55/23 N | 152/19/09 W |
| Islet | 58/56/30 N | 152/14/54 W |

Manuscripts TP-00825 and TP-00826 are complete. Manuscript TP-00824 is complete except for the northeastern shore of East Chugach Island. Since no hydrography was conducted or planned on that side of the island, field edit there was given lower priority than other survey operations. Time was set aside for the work, but in the last two days of suitable low tide, conditions were lost due to weather and sea conditions, and the effort was abandoned. No plans have been made for the completion of field edit on TP-00824.

RECOMMENDATIONS

It is recommended that manuscripts TP-00825 and TP-00826 be upgraded to Class 1 Manuscripts. Since this is the last field edit survey to be performed as part of shipboard hydrographic operations, the field editor has no further recommendations.

Respectfully submitted,

Steve Konrad
Steve Konrad
LT(jg), NOAA

Approved and forwarded,

John P. Vandermeulen
John Vandermeulen
CDR, NOAA

REVIEW REPORT
TP-00824
SHORELINE

61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S. Geological Survey quadrangles:

Seldovia (A-4) AK, scale 1:63,360, dated 1953

Seldovia (A-5) AK, scale 1:63,360, dated 1953.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Hydrographic Survey H10033 is not available for comparison at this time, April 25, 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following NOS Charts:

Chart 16606, scale 1:77,062, dated Oct. 20, 1979

Chart 16645, scale 1:82,662, dated July 30, 1983.

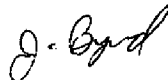
A change was noted at the northwest end of the Chugach Island, when chart 16645 was compared with the manuscript. The manuscript shows the island end has shifted southwest.

A Final Class III Chart Maintenance Print indicating discrepancies was prepared and forwarded to the Marine Charts Branch.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

This map complies with the Project Instructions, and meets the requirements for National Standards of Map Accuracy.

Submitted by:



James L. Byrd, Jr.

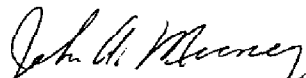
TP-00824

Approved for forwarding:



Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved:



John H. Mooney
Chief, Photogrammetry Branch,
Rockville



Ronald K. Brewer
Chief, Photogrammetric Division,
Rockville

Replaces C&GS Form 567.

NONFLOATING AIDS OR CANNOT WORKS FOR CHARTS

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

ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
☐ GEODETIC PARTY
☐ PHOTO FIELD PARTY
☒ COMPILATION ACTIVITY
☐ FINAL REVIEWER
☐ QUALITY CONTROL & REVIEW GRP.
☐ COAST PILOT BRANCH
- (See reverse for responsible personnel)

[illegible]

| RESPONSIBLE PERSONNEL | |
|---|--|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | R. Melby |
| POSITIONS DETERMINED AND/OR VERIFIED | R. Melby |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW | Charles Blood |
| ACTIVITIES | C. Blood |
| INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' | |
| (Consult Photogrammetric Instructions No. 64.) | |
| OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75 | FIELD (Cont'd) B. Photogrammetric field positions* require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982 |
| FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 | III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |
| *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods; | |

4.3-5 参考解答

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected charts.

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 R-

[illegible]