

TP - 00795

TP - 00795

| | |
|------------------------------------------------------------------------------------------------------------------|-------------------------|
| NOAA FORM 76-35 (6-80) | |
| U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY | |
| <h1>DESCRIPTIVE REPORT</h1> | |
| <i>Map No.</i> TP-00795 | <i>Edition No.</i> 1 |
| <i>Job No.</i> CM-7412 | |
| <i>Map Classification</i> FINAL MAP - FIELD EDITED | |
| <i>Type of Survey</i> SHORELINE | |
| <h2>LOCALITY</h2> | |
| <i>State</i> ALASKA | |
| <i>General Locality</i> COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS | |
| <i>Locality</i> THE SISTERS | |
| <div style="border: 1px solid black; padding: 5px; text-align: center;"> 19 75 TO 19 78 </div> | |
| <h2>REGISTERED IN ARCHIVES</h2> | |
| <i>DATE</i> | |

| | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------|--|
| 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. 00795 MAP EDITION NO. (1) MAP CLASS Final JOB CM CM-7412 | |
| DESCRIPTIVE REPORT - DATA RECORD | | | | | | | |
| PHOTOGRAMMETRIC OFFICE Coastal Mapping Division, Norfolk, VA | | | | LAST PRECEDING MAP EDITION | | | |
| OFFICER-IN-CHARGE Roy K. Matsushige | | | | TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED | | JOB PH- MAP CLASS SURVEY DATES: 19__ TO 19__ | |
| I. INSTRUCTIONS DATED | | | | | | | |
| 1. OFFICE | | | | 2. FIELD | | | |
| Aerotriangulation - North Sect Oct. 6, 1975 Compilation - North Sect May 3, 1976 Amendment I Aug. 17, 1976 Amendment II Jan. 14, 1977 | | | | 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 | | | | S. Solbeck | | Mar 1976 | |
| METHOD: Analytic (North Half) AND MARKS AND AIDS BY | | | | J. Perrow, Jr. | | Mar 1976 | |
| 2. CONTROL AND BRIDGE POINTS PLOTTED BY | | | | S. Solbeck | | Apr 1976 | |
| METHOD: Coradomat CHECKED BY | | | | J. Perrow, Jr. | | Apr 1976 | |
| 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY | | | | L. O. Neterer, Jr. | | Dec 1976 | |
| COMPILATION CHECKED BY | | | | A. C. Rauck, Jr. | | Dec 1976 | |
| INSTRUMENT: Wild B-8 | | | | CONTOURS BY | | N.A. | |
| SCALE: 1:20,000 | | | | CHECKED BY | | N.A. | |
| 4. MANUSCRIPT DELINEATION PLANIMETRY BY | | | | J. Roderick | | Jan 1977 | |
| CHECKED BY | | | | L. O. Neterer, Jr. | | Jan 1977 | |
| METHOD: CONTOURS BY | | | | N.A. | | | |
| CHECKED BY | | | | N.A. | | | |
| SCALE: 1:20,000 HYDRO SUPPORT DATA BY | | | | J. Roderick | | Jan 1977 | |
| CHECKED BY | | | | L. O. Neterer, Jr. | | Jan 1977 | |
| 5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY | | | | L. O. Neterer, Jr. | | Jan 1977 | |
| 6. APPLICATION OF FIELD EDIT DATA BY | | | | R. Kravitz | | Jan 1979 | |
| CHECKED BY | | | | L. O. Neterer, Jr. | | Mar 1979 | |
| 7. COMPILATION SECTION REVIEW BY | | | | C. Blood | | Apr 1984 | |
| 8. FINAL REVIEW BY | | | | C. Blood/J. Byrd | | Sept 1985 | |
| 9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY | | | | J. Byrd | | Nov 1985 | |
| 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY | | | | P. Dempsey | | Mar 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-00795

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

| | | | | | |
|-----------------------------------------------------------------|------------|-----------------------------------------------|----------|-----------------------------------------------------------------------------------|--|
| CAMERA(S) Wild RC 8 E 152.71 mm Wild RC 10 C 88.47 mm | | TYPES OF PHOTOGRAPHY LEGEND | | TIME REFERENCE | |
| TIDE STAGE REFERENCE | | (C) COLOR (P) PANCHROMATIC (I) INFRARED | | ZONE | |
| <input checked="" type="checkbox"/> PREDICTED TIDES | | | | Alaska | |
| <input checked="" type="checkbox"/> REFERENCE STATION RECORDS | | | | MERIDIAN | |
| <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY | | | | 150th | |
| | | | | <input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT | |
| NUMBER AND TYPE | DATE | TIME | SCALE | STAGE OF TIDE | |
| 75C(C)6282-6285 | Jul.5,1975 | 08:27 | 1:60,000 | 7.6 ft. above MLLW | |
| 75C(C)6289-6290 | Jul.5,1975 | 08:51 | 1:60,000 | 9.0 ft. above MLLW | |
| 75E(I)0616-0622* | Jul.8,1975 | 15:18 | 1:30,000 | 18.5 ft. above MLLW | |
| 75E(I)0609-0610* | Jul.8,1975 | 15:03 | 1:30,000 | 18.5 ft. above MLLW | |
| 75E(I)0756-0762** | Jul.9,1975 | 10:59 | 1:30,000 | 1.0 ft. below MLLW | |
| 75E(I)0749-0751** | Jul.9,1975 | 10:11 | 1:30,000 | 4.1 ft. above MLLW | |
| Mean tide range 15.4 ft. at Seldovia | | | | | |

REMARKS. Tide gages were observed at Kenai and Seldovia for infrared photography. Bridge and/or compilation photograph centers are not shown on the manuscript. The Mean High Water at Seldovia is 17.0 ft. above MLLW.

2. SOURCE OF MEAN HIGH-WATER LINE:

*The MHWL was compiled graphically from the above tide coordinated infrared photography.

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

**The MLLWL was compiled graphically from the above tide coordinated infrared 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

| TP-00793 | 1:20,000 | EAST | SOUTH | WEST |
|----------|----------|-----------|----------|-----------|
| TP-00794 | 1:10,000 | No Survey | TP-00796 | No Survey |
| REMARKS | | | | |

TP-00795

HISTORY OF FIELD OPERATIONS

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

| OPERATION | NAME | DATE |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. CHIEF OF FIELD PARTY | R. Melby | June 1975 |
| 2. HORIZONTAL CONTROL | RECOVERED BY L. Riggers | June 1975 |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY L. Riggers | June 1975 |
| 3. VERTICAL CONTROL | RECOVERED BY N.A. | |
| | ESTABLISHED BY N.A. | |
| | PRE-MARKED OR IDENTIFIED BY N.A. | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY None | |
| | LOCATED (Field Methods) BY None | |
| | IDENTIFIED BY None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | 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 | | 2. VERTICAL CONTROL IDENTIFIED | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------------------------------------------------------------------------------------|---------------------|
| Paneled | | N.A. | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| 75Z(C)6781 | CLAM, 1964 (sub pt. paneled) | | |
| 3. PHOTO NUMBERS (Clarification of details) None | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED | | | |
| PHOTO NUMBER | OBJECT NAME | PHOTO NUMBER | OBJECT NAME |
| 75Z(C)6781 | Parabolic Antenna (CLAM, 1964) | | |
| 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) 1 - Form 152 2 - Form 277 (Tides Record Book) | | | |

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

TP-00795

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

| OPERATION | NAME | DATE |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| 1. CHIEF OF FIELD PARTY | J. Randall | Aug. 1978 |
| 2. HORIZONTAL CONTROL | RECOVERED BY S. Miller | Jul. 1978 |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY None | |
| 3. VERTICAL CONTROL | RECOVERED BY None | |
| | ESTABLISHED BY None | |
| | PRE-MARKED OR IDENTIFIED BY None | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | RECOVERED (Triangulation Stations) BY S. Miller | Jul. 1978 |
| | LOCATED (Field Methods) BY None | |
| | IDENTIFIED BY None | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION | |
| 6. PHOTO INSPECTION | CLARIFICATION OF DETAILS BY R. Hastings | Aug. 1978 |
| 7. BOUNDARIES AND LIMITS | SURVEYED OR IDENTIFIED BY N.A. | |

II. SOURCE DATA

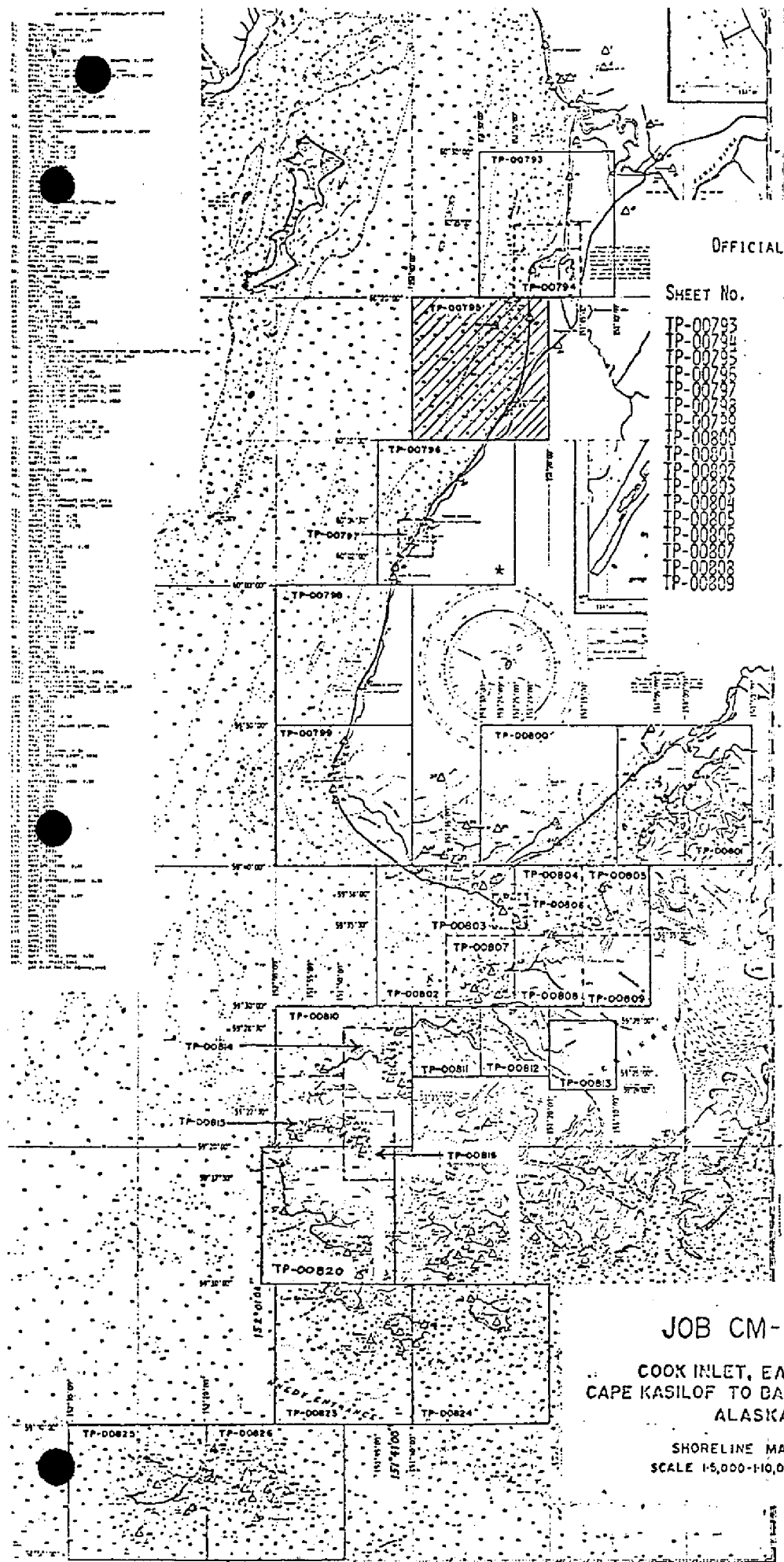
| | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------|---------------------|
| 1. HORIZONTAL CONTROL IDENTIFIED None | | 2. VERTICAL CONTROL IDENTIFIED None | |
| PHOTO NUMBER | STATION NAME | PHOTO NUMBER | STATION DESIGNATION |
| | | | |
| 3. PHOTO NUMBERS (Clarification of details) 75E(I)0756 thru 0762 (Cronapaque & Matte) | | | |
| 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) Field Edit Report Master Field Edit Print 1 Page Field Sketches 1 Form 76-40 | | | |

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

TP-00795

HISTORY OF FIELD OPERATIONS

| | | | | | | | |
|------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------|--|--------------------------------------------------------------------------------------------------|---------------------|------------|--|
| I. <input type="checkbox"/> FIELD INSPECTION OPERATION | | | | <input checked="" type="checkbox"/> FIELD EDIT OPERATION | | | |
| OPERATION | | NAME | | DATE | | | |
| 1. CHIEF OF FIELD PARTY | | W. Mobley | | Jun-Jul 79 | | | |
| 2. HORIZONTAL CONTROL | | RECOVERED BY | | None | | | |
| | | ESTABLISHED BY | | None | | | |
| | | PRE-MARKED OR IDENTIFIED BY | | None | | | |
| 3. VERTICAL CONTROL | | RECOVERED BY | | None | | | |
| | | ESTABLISHED BY | | None | | | |
| | | PRE-MARKED OR IDENTIFIED BY | | None | | | |
| 4. LANDMARKS AND AIDS TO NAVIGATION | | RECOVERED (Triangulation Stations) BY | | None | | | |
| | | LOCATED (Field Methods) BY | | None | | | |
| | | IDENTIFIED BY | | None | | | |
| 5. GEOGRAPHIC NAMES INVESTIGATION | | TYPE OF INVESTIGATION | | | | | |
| | | <input type="checkbox"/> COMPLETE | | | | | |
| | | <input type="checkbox"/> SPECIFIC NAMES ONLY | | | | | |
| | | <input checked="" type="checkbox"/> NO INVESTIGATION | | | | | |
| 6. PHOTO INSPECTION | | CLARIFICATION OF DETAILS BY | | J. Talbott | | Jun-Jul 79 | |
| 7. BOUNDARIES AND LIMITS | | SURVEYED OR IDENTIFIED BY | | N.A. | | | |
| II. SOURCE DATA | | | | | | | |
| 1. HORIZONTAL CONTROL IDENTIFIED | | | | 2. VERTICAL CONTROL IDENTIFIED | | | |
| None | | | | None | | | |
| PHOTO NUMBER | STATION NAME | | | PHOTO NUMBER | STATION DESIGNATION | | |
| | | | | | | | |
| 3. PHOTO NUMBERS (Clarification of details) | | | | | | | |
| 75E(I)0747, 0746 | | | | | | | |
| 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) | | | | | | | |
| Field Edit Report | | | | | | | |
| Master Field Edit Print | | | | | | | |
| Paper computer sheet with rock positions | | | | | | | |



OFFICIAL MILEAGE FOR COST ACCOUNTS

| SHEET No. | Sq. Mi. | SHEET No. | Sq. Mi. |
|-----------|-----------------------------------------------------------------------------------|-----------|---------|
| TP-00793 | N N N N N N N N N N N N N N N N N | TP-00810 | 17 |
| TP-00794 | | TP-00811 | 17 |
| TP-00795 | | TP-00812 | 17 |
| TP-00796 | | TP-00813 | 17 |
| TP-00797 | | TP-00814 | 17 |
| TP-00798 | | TP-00815 | 17 |
| TP-00799 | | TP-00816 | 17 |
| TP-00800 | | TP-00817 | 17 |
| TP-00801 | | TP-00818 | 17 |
| TP-00802 | | TP-00819 | 17 |
| TP-00803 | | TP-00820 | 14 |
| TP-00804 | | TP-00821 | 14 |
| TP-00805 | | TP-00822 | 14 |
| TP-00806 | | TP-00823 | 14 |
| TP-00807 | | TP-00824 | 14 |
| TP-00808 | | TP-00825 | 14 |
| TP-00809 | | TP-00826 | 14 |
| | | TOTAL | 14 |

REVISED 9/23/76 R.W.L.
6/13/79 L.F.V.

JOB CM-7412

COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS
ALASKA

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

MARCH 1974

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-00795

This 1:20,000 Final 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 Final Map portrays the west coast of Cook Inlet area, south of Kenai from latitude $60^{\circ}10'$ north to latitude $60^{\circ}20'$.

Field work prior to compilation consisted of the recovery and identification of the 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 July 1975.

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

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project in March 1976. Aerotriangulation operation 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 in January 1977. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted July and August 1978 by hydrographic personnel assigned to the NOAA ship RAINIER. Field edit for this manuscript is complete and was applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in March 1979.

Final review was performed at the Atlantic Marine Center September 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 Map. The original base manuscript and all related data were forwarded to the Washington Science Center for final registration.

FIELD INSPECTION

TP-00795

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.

March, 1976

Photogrammetric Plot Report
Cook Inlet Alaska
North ~~Half~~ A-T
CM-7412

Revised March 7, 1984 C.E.B.

21. Area Covered

The area covered by this report is the eastern shoreline of Cook Inlet, Alaska, from Cape Kasilof to the northern shoreline of Kachemak Bay. This area is covered by eight 1:20,000 scale sheets (TP-00793, 795, 796, 798, 800, 802); three 1:10,000 scale sheets (TP-00794, 803, 804); and two 1:5,000 scale sheets (TP-00797 and 806).

22. Method

Eight strips of color photography (three 1:60,000, three 1:30,000, two 1:15,000) were bridged by analytic aerotriangulation methods.

Common points were located on the bridging photography and all photography being used for ratio purposes. Tie points were used on all bridging photography to ensure adequate junctioning during the strip adjustment. Ratio prints were ordered. The T-sheet manuscripts were plotted on the Coradomat.

23. Adequacy of Control

The control proved adequate except in the area along Anchor Point. Station END, 1968, was not covered on strip 75E(C)0014-0027, making it necessary to locate common points between that strip and strip 75E(C)6287-6300 to ensure adequate junctioning between the two.

The lower, or western half, of strip 75C(C)6301-6315 was often difficult to measure due to inadequate overlap and poor image quality.

For the two 1:5,000 scale sheets, no mean lower low water coverage was available. TP-00797 was also covered by 1:15,000 scale color photography flown in tandem with the infrared photography. This color strip, along with strip 75Z(C)7490-7511 (flown parallel to strip 75C(C)6301-6315), was ratioed for compilation purposes. Both were flown during mean high water.

On strip 75E(C)0057-0061, 900 points were dropped so that this strip could be used on the Wild B-8 stereoplotter to compile the NE corner of TP-00803.

Strip 75Z(C)6945-6956 was to be used for the compilation of TP-00806. Although there is color coverage (flown at mean high water) for TP-00800, no black and white infrared photography was available which covers this area at mean high water.

24. Supplemental Data

USGS quadrangles were used to provide vertical control for the adjustment.

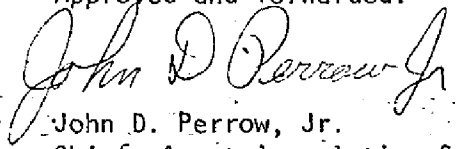
25. Photography

The coverage, overlap, and quality of the photography in general was adequate for the job.

Respectfully submitted,


Stephen H. Solbeck

Approved and forwarded:


John D. Perrow, Jr.
Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH
COOK INLET, ALASKA
NORTH HALF
CM-7412
MARCH 1976

KENAI RUSSIAN
CHAPEL SPIRE 1964

6275
RNG, KENAI RADIO
ENA, 1964

KENAI, 1964

AUDRY, 1961

60° 30' 00"

TP 00793

9928

TP 00794

PT. 2, 1963

TP 00795

9934

6287

CLAM, 1964

9927

6814

TP 00796

6286

CHIK RM 2, 1964

TP 00797

DEEP, 1964

60° 00' 00"

TP 00798

9913

STARISKY, 1964

6300

0027

END, 1968

TP 00799

6945

TP 00800

AUORA
1923

DANA
1955

JOLLY, 1965

BLUFF PT2
1962

HOMER
1964

DUNE, 1964

6301

6952

0014

HOMER EAST BASE, 1963

59° 30' 00"

COLOR BRIDGING PHOTOGRAPHY

• 75C(c) 1:60000

• 75E(c) 1:30000

• 75Z(c) 1:15000

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALE

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

66° 30' 00"

TP 00793

△ AUDRY, 1961

TP 00794

PT. 2, 1953

TP 00795

51° 00' 00"

△ CLAM, 1964

TP 00796

6814

△ CHIK RM 2, 1964

TP 00797

6827

△ DEEP, 1964

66° 00' 00"

TP 00798

△ STARISKY, 1964

TP 00800

AUORA
1923

△ JOLLY, 1965

0057
DANA
1965

△ END, 1968

TP 00799

BLUFF
1962

PT 2

0061
7440

DUNK, 1964

HOMER EAST BASE 2, 1965

51° 30' 00"

COLOR FOR RATIO

75E(c)

• 1:15000

■ 1:30000

75E(c)

▲ 1:30000

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CN-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

△ AUDRY, 1961

60° 30' 00"

BLACK AND WHITE INFRARED

75 E(R) 1:15000

MHW

TP00793

TP00794

PT. 2, 1953

TP00795

15' 10" 00"

△ CLAM, 1964

TP00796

874

△ CHIK RM 2, 1964

TP00797

885

△ DEEP, 1964

60° 00' 00"

TP00798

△ STARISKY, 1964

TP00800

△ JOLLY, 1965

AUORA
1923

△ END, 1968

870

DANA
1965

TP00799

BLUFF PT2
1962HOMAIR
1964

DUNE, 1964

HOMER EAST BASE 2, 1963

882

60° 30' 00"

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

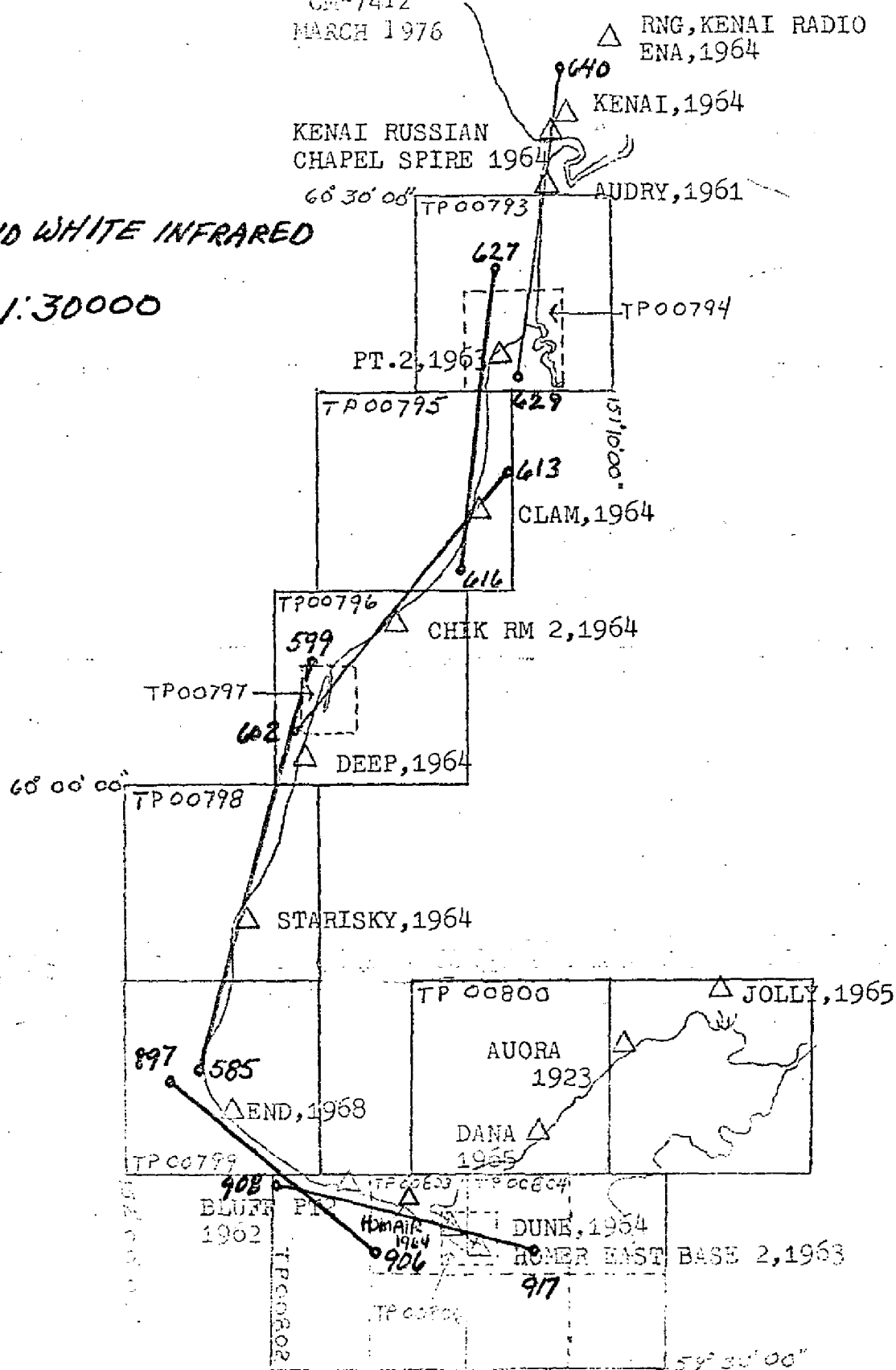
MARCH 1976

BLACK AND WHITE INFRARED

75 E(R)

1:30000

MHW



LIST OF ACCURACY OF CONTROL USED IN STRIP ADJUSTMENT

| | POINT | X error (ft) | Y error (ft) |
|----------|-----------------------------------------------------------------------|--------------|--------------|
| STRIP #1 | 276110 (VOR KENAI RADIO, ENA 1964) | -4.342 | +2.126 |
| | 277100 (KENAI, 1964) | +3.096 | -1.403 |
| | 277113 (KENAI RUSSIAN CHAPEL SPIRE, 1964) | +3.111 | - .966 |
| | 278101 (AUDRY, SUB PT. 1961) | - .694 | - .203 |
| | 281101 (PT. 2, SUB PT. 1963) | -4.894 | + .309 |
| | 289101 (CLAM, SUB PT. 1964) | +1.731 | + .156 |
| STRIP #2 | 289101 (CLAM) | +1.149 | + .188 |
| | 291101 (CHIK RM 2 SUB PT. 1964) | -2.593 | + .365 |
| | 294100 (DEEP, 1964) | +2.091 | -1.854 |
| | 294101 (SUB PT.) | +1.247 | -3.760 |
| | 297101 (STARISKY 1964 SUB PT.) | - .672 | +2.243 |
| | 300101 (END 1968 SUB PT.) | + .024 | - .946 |
| STRIP #3 | 954101 (HOMER EAST BASE 2, 1965, SUB PT.) | + .038 | -1.192 |
| | 954110 (HOMER SPIT. LT. 1964) | -1.302 | -2.238 |
| | 952100 (BLUFF POINT 2 DUNE RM 4, 1956 1964) | - .316 | +3.060 |
| | 949110 (HOMER AERO LT. 1956) | +2.374 | +3.742 |
| | 948110 (HOMER RADIO RANGE CENTER TOWER 1956) | -2.141 | - .144 |
| | 945110 (HOMER PTR UNLITED MAST OFS, 1964) | +2.508 | - .039 |
| | 21101 (BLUFF POINT 2 RM 4 1956) | -1.282 | -3.596 |
| | 300801 (STRIP #2) | -1.547 | +8.669 |
| | 300802 (") | -2.721 | - .623 |
| | 300803 (") | +3.827 | +1.389 |

| | | X error (ft) | Y error (ft) |
|----------|----------------------------------------------|--------------|--------------|
| STRIP #4 | 18801 (#3) | -4.690 | -2.056 |
| | 18802 (#3) | +2.598 | -2.468 |
| | 948110 (HOMER RADIO RANGE CENTER TOWER 1956) | +1.825 | -5.416 |
| | 948802 (#9) | +4.084 | + .238 |
| | 948803 (#9) | +2.159 | - .841 |
| | 949110 (HOMER AERO LT 1956) | -6.364 | - .260 |
| | 949802 (#9) | -1.658 | - .083 |
| | 949803 (#9) | + .336 | - .287 |
| | 17801 (#3) | -3.734 | +2.154 |
| | 301101 (HOM AIR 1964 SUB PT) | - .465 | + .356 |
| | 952100 (DUNE, 1964) | -2.808 | +6.592 |
| | 954101 (HOMER EASTBASE 2, 1965 SUB PT) | -13.966 | +20.221 |
| | 954110 (HOMER SPIT LIGHT 1964) | -6.957 | +10.535 |
| | 304110 (VOR HOMER RADIO MON. 1964) | -1.881 | +9.363 |
| | 305101 (DANA 1965 SUB PT) | + .705 | +2.009 |
| | 307101 (AURORA 1923 SUB PT) | +1.897 | + .632 |
| | 310100 (JOLLY 1965) | - .690 | - .550 |

STRIP #5

| | | |
|---------------------|--------|--------|
| 294100 (DEEP, 1964) | -1.456 | +2.391 |
| 294101 (SUB PT) | -1.231 | +1.392 |
| 916801 (#2) | - .025 | + .575 |
| 916802 (#2) | + .486 | +2.996 |
| 917801 (#2) | +1.006 | + .551 |
| 918801 (#2) | - .012 | -1.965 |
| 919801 (#2) | +3.772 | -1.728 |
| 920801 (#2) | + .565 | -1.202 |

| | | X error (ft) | Y error (ft) |
|----------|-----------------------------------|--------------|--------------|
| STRIP #5 | 921801 (#2) | - .950 | +2.448 |
| (CON'T) | 291101 (CHIK RM 2 1964 SUB PT) | -4.528 | + .226 |
| | 922801 (#2) | -3.924 | -4.099 |
| | 923801 (#2) | + .005 | -4.693 |
| | 924801 (#2) | +2.020 | - .585 |
| | 925801 (#2) | + .229 | + .128 |
| | 289101 (CLAM 1964 SUB PT) | - .061 | - .316 |
| | 926803 (#2) | +1.867 | -2.156 |
| | 926804 (#2) | +1.501 | -2.488 |

STRIP #6

| | | |
|-------------------------------|---------|--------|
| 928801 (#1) | - .404 | - .179 |
| 928802 (#1) | - .182 | + .528 |
| 930801 (#1) | +1.362 | - .043 |
| 931801 (#1) | -1.325 | -3.232 |
| 281101 (PT 2, 1963 SUB PT) | -5.609 | + .708 |
| 932801 (#1) | +5.165 | +5.442 |
| 932802 (#1) | +5.104 | +1.864 |
| 933801 (#1) | -10.592 | +3.093 |
| 933802 (#1) | +1.112 | + .351 |

STRIP #7

| | | |
|-------------|--------|--------|
| 816801 (#5) | - .451 | - .066 |
| 816802 (#5) | + .986 | + .876 |
| 816803 (#5) | +1.673 | +1.009 |
| 816804 (#5) | +1.681 | +2.686 |
| 817801 (#5) | +1.307 | +1.566 |

| | | | X error (ft) | Y error (ft) |
|----------|--------|-------------|--------------|--------------|
| Strip #7 | 818801 | (#5) | + .563 | + .060 |
| (CONT) | 819801 | (#5) | + .919 | + .616 |
| | 820802 | (#5) | - 2.371 | +1.092 |
| | 820801 | (#5) | + .520 | +1.577 |
| | 821801 | (#5) | - .764 | -1.191 |
| | 821802 | (#5) | | |
| | 822801 | (#5) | -1.233 | .695 |
| | 822802 | (#5) | -2.874 | -.100 |
| | 823801 | (#5) | -.542 | -1.085 |
| | 824801 | (#5) | +1.164 | -.042 |
| | 294100 | (DEEP 1964) | - .276 | - .151 |
| | 294101 | (SUB PT) | - .187 | -.032 |
| | 825801 | (#5) | -.374 | -1.036 |
| | 825802 | (#5) | + .160 | +1.685 |
| | 818802 | (#5) | -.883 | -.646 |

STRIP #9

| | | | |
|--------|---------------------------------------------|--------|--------|
| 945110 | (HOMER RTR UNLIGHTED MAST OF 5-1964) | + .015 | -.024 |
| 948110 | (HOMER RADIO RANGE CENTER TOWER 1956) | + .289 | -5.417 |
| 949110 | (HOMER AERO LT 1956) | - .006 | + .001 |
| 952100 | (DUNE 1964) | +1.317 | -.142 |
| 954101 | (HOMER EAST BASE 2, 1965 SUB PT) | + .004 | -.005 |
| 954110 | (HOMER SPIT LIGHT 1964) | -1.210 | -1.041 |

DESCRIPTIVE REPORT CONTROL RECORD

| MAP NO. | JOB NO. | GEODETIC DATUM | ORIGINATING ACTIVITY | | |
|-------------------------|------------------------------------|---------------------------------|-----------------------------------------------|---------------------------------------------------------------|-----------------|
| TP-00795 | CM-7412 | N.A. 1927 | Coastal Mapping Unit, AMC, Norfolk, VA | | |
| STATION NAME | SOURCE OF INFORMATION (Index) | AEROTRI-ANGULATION POINT NUMBER | COORDINATES IN FEET STATE Alaska ZONE 4 | GEOGRAPHIC POSITION ϕ LATITUDE λ LONGITUDE | REMARKS |
| CLAM, 1964 | List of Control, Homer to Soldotna | 2891001 AL | X= | ϕ 60 12 53.11018 | |
| | | | Y= | λ 151 24 43.97357 | |
| SIS, 1963 | Quad 60151 page 1 | 000019 | X= | ϕ 60 18 03.6094 | |
| | | | Y= | λ 151 27 16.8450 | |
| PT. 4, 1963 | Quad 60151 page 1 | 000024 | X= | ϕ 60 12 20.4607 | |
| | | | Y= | λ 151 25 46.1880 | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| | | | X= | ϕ | |
| | | | Y= | λ | |
| COMPUTED BY A. Rauck | | DATE 6/1/76 | COMPUTATION CHECKED BY F. Mauldin | | DATE 6/16/76 |
| LISTED BY A. Rauck | | DATE 6/1/76 | LISTING CHECKED BY F. Mauldin | | DATE 6/16/76 |
| HAND PLOTTING BY | | DATE | HAND PLOTTING CHECKED BY | | DATE |

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

COMPILATION REPORT

TP-00795

31 - DELINEATION

Delineation was accomplished by using stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:60,000 scale color bridging photographs was used to delineate shoreline, alongshore and interior detail, and to locate common image points to control the graphic use of the 1:30,000 scale infrared photography. The MHWL and MLLW lines were graphically delineated from the tide-coordinated infrared photography.

All photographs used to compile this map are listed on NOAA Form 76-36B. Photography was adequate.

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, North half, dated March 1976.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours were not applicable to this project.

Drainage was compiled from interpretation of the photographs and delineated by using the Wild B-8 stereoplotter.

35 - SHORELINE AND ALONGSHORE DETAILS

Alongshore details were delineated on the Wild B-8 stereoplotter from office interpretation of the photographs.

The mean high water line was delineated from the photographs described in item #31.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no aids for navigation within the limits of this manuscript. One landmark is shown.

TP-00795

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-37B, item 5.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report, North half, dated March 1976.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the U.S. Geological Survey
Quadrangles:
Kenai (A-4), Alaska, scale 1:63,360, dated 1952
Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the National Ocean Survey
chart:
No. 16640, scale 1:200,000, dated May 25, 1974
No. 16660, scale 1:194,154, dated October 18, 1975.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Joanne D. Roderick
Joanne D. Roderick
Cartographer
January 3, 1977

Approved:

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

ADDENDUM TO THE COMPILATION REPORT

TP-00795

FIELD EDIT

Field edit rock data was computed from predicted tide tables. Mean high water is based on Kenai City River entrance tide gage.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP = 00795

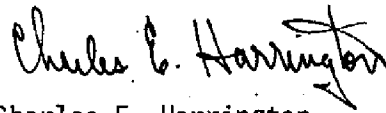
Clam Gulch

Cook Inlet

Corea Creek

The Sisters

Approved by:



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-78
CM-7412

TP-00795

ALASKA
COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JULY 22 - AUGUST 11, 1978
(JD 203 - 223)

51 METHODS

Field edit operations for TP-00795 began on July 22, 1978 (JD 203) and ended on August 11, 1978 (JD 223). Field edit began prior to and continued concurrent with hydrographic operations for survey H-9777, OPR-P114-RA-78. The hydrographic survey H-9777 included all but the southern two miles of shoreline on TP-00795.

Inspection of the shoreline was made during low water utilizing a four wheel drive vehicle. The entire shoreline could be driven near the MHWL in this manner. Offshore rocks were located by hydrography. Extreme high and low tides occurred during the course of field edit and hydrography. Landmarks for charts were investigated from the ship RAINIER while in the working grounds.

Heights of exposed rocks were estimated at close range. The times noted are GMT (local + 9 hours). A letter designator was assigned to each rock. See Table 1 for the master listing.

Shoreline and topographic notes are annotated on black and white chronopaque photographs 09JUL75E(I)-0756, 0757, 0758, 0759, 0760, 0761, 0762. The annotations on the photographs and the Master Film Field Edit Ozalid were made using colors with the following accepted meanings: violet - verification of features, red - addition or revision of features, green - deletion of features.

52 ADEQUACY OF COMPILATION

The compilation of TP-00795 is adequate and complete with the additional features noted in this and the following sections. Nine rocks extend above MHWL. The heights of the bluffs are adequate as compiled.

53 MAP ACCURACY

On TP-00795, 124 rocks were investigated. 43 rocks on TP-00795 were verified by field edit. Six rocks on TP-00795 were deleted. 64 new rocks were found. Nine rocks extend above MHWL. Nine rocks were found by hydrography but were visible on the photographs. These were transferred to field edit and the hydrographic data deleted from the records. Table I of the "Separates Following the Text" is the master listing of the rock investigations. Also found during field edit were 2 groups of metal stakes and piling ruins. A diagram is included in the "Separates".

The lower reaches of the shore of TP-00795 have a low slope and consist of sand with boulders. The upper reaches have a steeper slope and consist of sand and gravel with boulders.

54 RECOMMENDATIONS

Compilation notes to the hydrographer on TP-00795 refer to 28 rock circles and triangulation station SIS 1963 as taken from H-3196, 1910. As H-3196 was done in 1910 there has been a subsequent datum shift. Ship's comparisons indicate that compilation did not shift the datum. Radio messages and correspondence have been transmitted discussing the situation.

56 MISCELLANEOUS

Commercial salmon fishing season was open during the course of field edit. Vehicles and equipment were on the beach, with boats, floats, and nets in the water.

All triangulation stations within TP-00795 were visited. Station descriptions and/or recovery notes are included in the "Separates." All other pertinent information is also located in the "Separates Following the Text."

Respectfully submitted,

Richard Lee Hastings

Richard Lee Hastings, ST

Approved by,

James P. Randall

James P. Randall
Captain NOAA

REVIEW REPORT
TP-00795
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.G.S. quadrangle:
Kenai (A-4), Alaska, scale 1:63,360, dated 1952
Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the following contemporary hydrographic surveys:
H-9777, scale 1:20,000, dated July 15, 1980
H-9833, scale 1:20,000, dated December 30, 1980.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the NOS charts:
16640, scale 1:200,000, dated April 23, 1983
16660, scale 1:194,000, dated May 8, 1982.

The above listed charts compared well with this manuscript.

A Final Chart Maintenance Print was prepared and forwarded to Marine Charts.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00795

Submitted by,

*Charles E. Blood / James L. Byrd, Jr.*Charles E. Blood/James L. Byrd, Jr.
Final Reviewer

Approved for forwarding,

*Billy H. Barnes*Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

*John A. Money*Chief, Photogrammetric Section,
Rockville*Ronald K. Brewer*Chief, Photogrammetry Branch,
Rockville

Replaces C&GS Form 567.

MONITORING AND OR LANDMARKS FOR CHARTS

[illegible]

| RESPONSIBLE PERSONNEL | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE OF ACTION | NAME |
| OBJECTS INSPECTED FROM SEAWARD | R. Hastings |
| POSITIONS DETERMINED AND/OR VERIFIED | S. Miller |
| FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW | L. Neterer |
| 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) II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 |
| 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 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods. | III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods. |

