

TP-00803

TP-00803

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-00803	<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> HOMER	
<div style="border: 1px solid black; padding: 5px; text-align: center;"> 19 75 TO 19 80 </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.	
DESCRIPTIVE REPORT - DATA RECORD		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA OFFICER-IN-CHARGE Roy K. Matsushige		SURVEY TP. <u>00803</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>Final</u> JOB <u>PH-CM-7412</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division AMC, Norfolk, VA OFFICER-IN-CHARGE Roy K. Matsushige		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH-</u> <u>CM-</u> MAP CLASS <u>Final</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	
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 <u>Alaska</u> ZONE <u>4</u>	
5. SCALE 1:10,000		STATE <u>Alaska</u> ZONE <u>4</u>	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic (North Half)</u>		S. Solbeck	Mar. 1976
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		J. Perrow, Jr. S. Solbeck J. Perrow, Jr.	Mar. 1976 Apr. 1976 Apr. 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:10,000</u> CHECKED BY		J. Moler R. Kravitz N.A. N.A.	Mar. 1979 Mar. 1979
4. MANUSCRIPT DELINEATION PLANIMETRY BY METHOD: <u>Smooth drafted and</u> CHECKED BY <u>graphic</u> CONTOURS BY SCALE: <u>1:10,000</u> CHECKED BY HYDRO SUPPORT DATA BY		J. Moler F. Mauldin N.A. N.A. J. Moler F. Mauldin	Apr. 1979 Jun. 1979 Apr. 1979 Jun. 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		F. Mauldin	Jun. 1979
6. APPLICATION OF FIELD EDIT DATA BY		L. Williams	Jul. 1981
7. COMPILATION SECTION REVIEW BY		C. Blood	Aug. 1981
8. FINAL REVIEW BY		C. Blood/J. Byrd	Jul. 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		J. Byrd	Nov. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Demsey	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-00802

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8E (152.71 mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 150th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75E(C) 0019-0022#	Jul. 5, 1975	11:52	1:30,000	12.9 ft. above MLLW	
75E(I) 909-912*	Jul. 9, 1975	15:05	1:30,000	16.27 ft. above MLLW	
76E(I) 3972-3975**	Jun. 11, 1976	08:40	1:30,000	0.94 ft. above MLLW	
				Mean tide range = 15.4 ft. at Seldovia	

REMARKS

A tide gauge was observed for the tide coordinated infrared photography.
MHW = 17.0 ft. above MLLW at Seldovia.

2. SOURCE OF MEAN HIGH-WATER LINE:

* The MHWL was compiled from office interpretation of the above listed 1:30,000 color photographs using stereo instrument methods. *Compilation was supplemented by graphic methods using the MHW tide coordinated infrared (ratio) photographs.

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

**The MLLW line 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

NORTH	EAST	SOUTH	WEST
TP-00799	TP-00803 TP-00807	TP-00810 TP-00811 TP-00812	No survey

REMARKS

The eastern half of this manuscript is covered by TP-00803 and TP-00805 at 1:10,000 scale.

TP-00803

HISTORY OF FIELD OPERATIONS

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

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	June 1975
2. HORIZONTAL CONTROL	RECOVERED BY R. Melby ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY L. Riggers	June 1975 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 Paneled		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
75C(C)6302	HOMAIR, 1964 (Sub Point)		

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)

1 - Form 152

Project data: 2 - Form 277, 1 - Form 77-53 (Tides Record Book)

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

TP-00803

HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	July 1980
2. HORIZONTAL CONTROL	RECOVERED BY R. Hastings ESTABLISHED BY None PRE-MARKED OR IDENTIFIED BY None	July 1980
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 R. Hastings LOCATED (Field Methods) BY None IDENTIFIED BY None	July 1980
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	
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) 76 E(I) 3976, 3977, and 4060			
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) Master Field Edit Print Field Edit Report Form 76-40			

TP-00803
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 .	Jun. 4, 1979	Class III Manuscript Superseded	Oct. 17, 1979	Feb. 21, 1980
Field edit applied. Compilation complete	Aug. 1981	Class I Map	Aug 1981	
Final Review	Jul. 1985	Final 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			Landmarks to be Charted

2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: Aug 19813. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

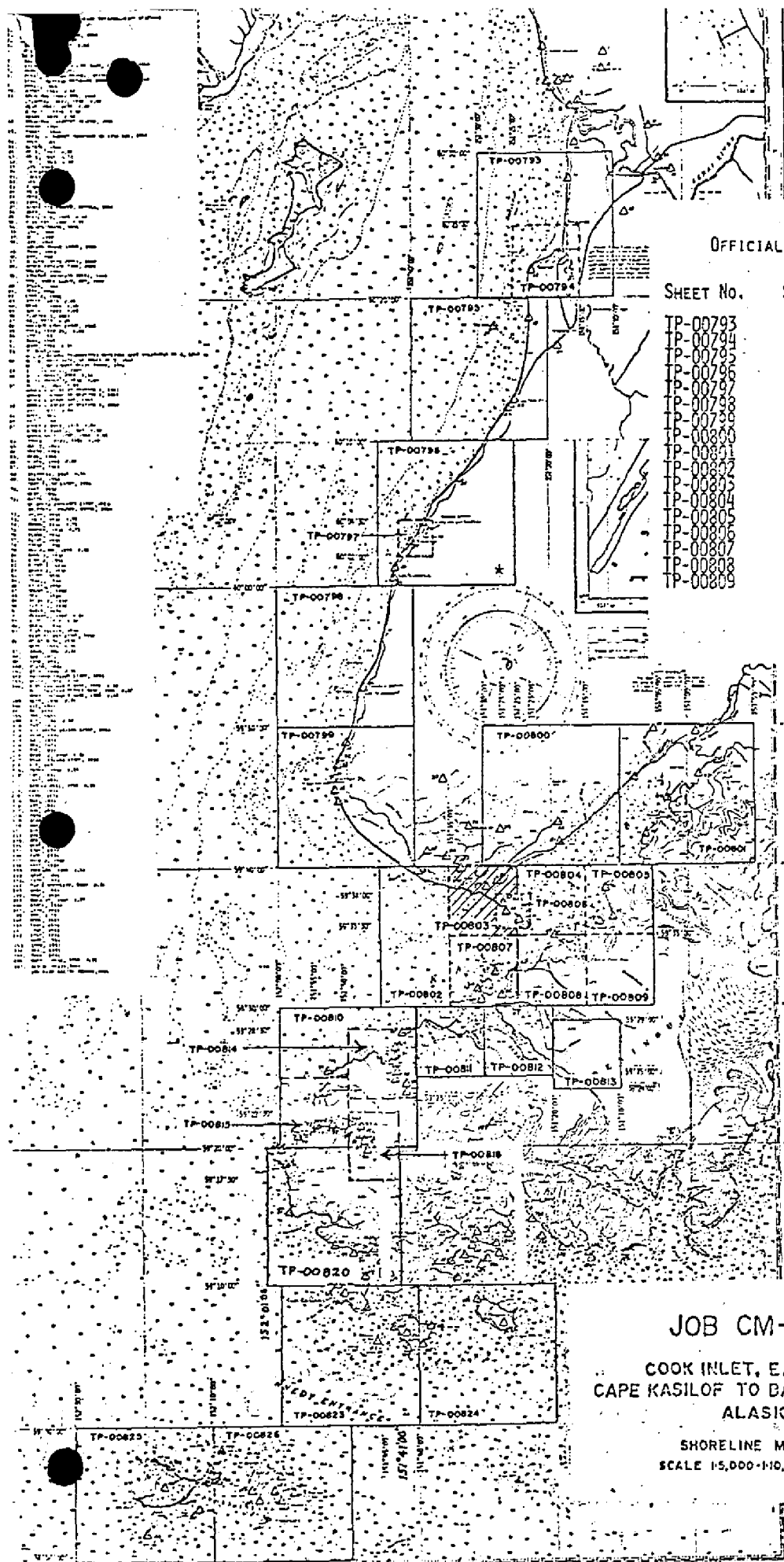
III. FEDERAL RECORDS CENTER DATA

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



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	17
TP-00796		TP-00813	17
TP-00797		TP-00814	17
TP-00798		TP-00815	17
TP-00799		TP-00816	17
TP-00800			
TP-00801			
TP-00802		TP-00820	17
TP-00803			
TP-00804			
TP-00805		TP-00823	17
TP-00806		TP-00824	17
TP-00807		TP-00825	17
TP-00808		TP-00826	17
TP-00809		TOTAL	145

REVISED 9/23/76 R.W.M.
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-00803

This 1:10,000 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 covers an area of the north Kachemak Bay shoreline in the vicinity of Homer.

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 in June 1975.

Photographic coverage was adequately provided by natural color and infrared tide coordinated photographs at 1:30,000 scale. The RC-8(E) camera was used to expose the natural color film required for the aerotriangulation, compilation photographs taken July 1975. The RC-8(E) camera was used for the infrared black-and-white photographs taken July 1975 and June 1976. The infrared photographs were used to supplement the color compilation photography. Ratio photographs taken with the RC-10(Z) camera using color film taken August 1975, printed as black and white, were used graphically.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project in March 1976. Aerotriangulation operations included ruling the base manuscript and determining ratio values for the infrared photographs.

Compilation, based upon photointerpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in June 1979. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted July 1980 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 August 1981.

Final review was performed at the Atlantic Marine Center in July 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-00803

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, ⁷⁹⁶798, ⁷⁹⁹800, ⁸⁰¹802); 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.

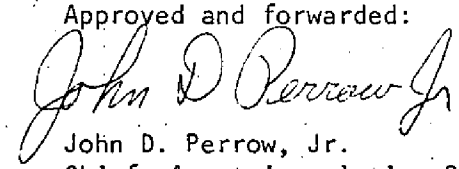
25. Photography

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

RNG, KENAI RADIO
ENA, 1964

KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

AUDRY, 1961

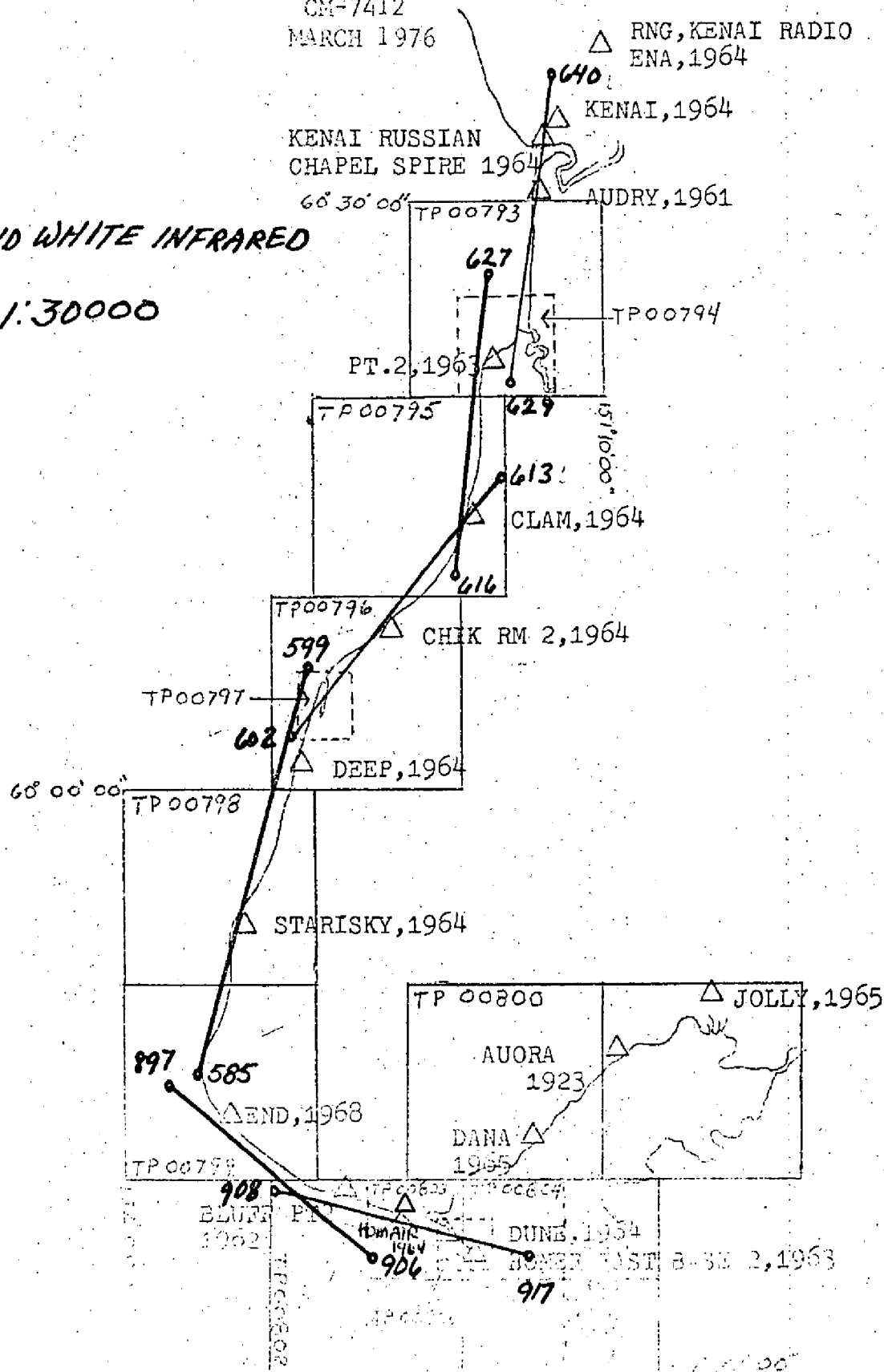
60° 30' 00"

BLACK AND WHITE INFRARED

75 E(R)

1:30000

MHW



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

△ AUDRY, 1961

60° 30' 00"

TP 00793

TP 00794

△ PT. 2, 1963

TP 00795

15' 10' 00"

△ CLAM, 1964

TP 00796

894

△ CHIK RM 2, 1964

TP 00797

895

△ DEEP, 1964

60° 00' 00"

TP 00798

△ STARISKY, 1964

TP 00800

△ JOLLY, 1965

AUORA
1923DANA
1965

△ END, 1968

870

TP 00799

BLUFF FT2
1962HOMAIR
1964

DUNA, 1964

HOMER EAST B. SE 2, 1965

882

BLACK AND WHITE INFRARED

75 E(R) 1:15000

MHW

AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH MAP

CM-7412

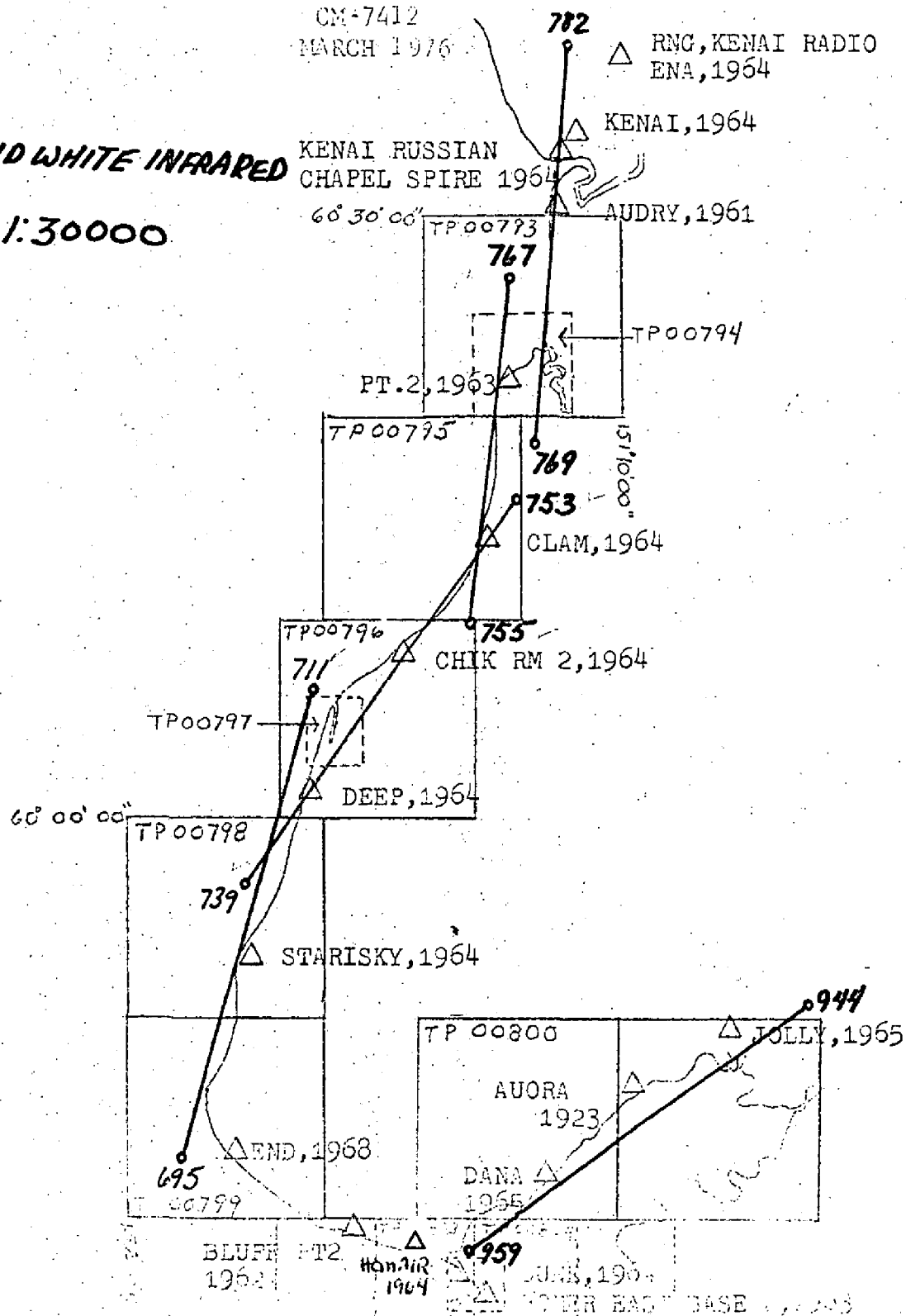
MARCH 1976

BLACK AND WHITE INFRARED

75E(R)

MLLW

1:30000



AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH ISLE

CM-7412

MARCH 1976

△ RNG, KENAI RADIO
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN
CHAPEL SPIRE 1964

68° 30' 00"

△ AUDRY, 1961

TP 00773

TP 00794

PT. 2, 1963

TP 00795

51° 00' 00"

△ CLAM, 1964

TP 00796

6814

△ CHIK RM 2, 1964

TP 00797

6827

△ DEEP, 1964

68° 00' 00"

TP 00798

△ STARISKY, 1964

TP 00800

△ JOLLY, 1965

AUORA
19230057
DENA

0055

TP 00799

BLUFF PT2
1962HMAIC
1964

DUNS, 1964

HOMER EAST BASE 2, 1964

0061 7490

TP 00802

5, 30' 00"

COLOR FOR RATIO

75Z(c)

• 1:15000

• 1:30000

75E(c)

△ 1:30000

LIST OF ACCURACY OF CONTROL USED IN STRIP ADJUSTMENT

Strip #	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 SPIRG, 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 1954 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 RTR UNLITED MAST OF 5, 1964)	+2.508	-.039
	21101 (BLUFF POINT 2 RM 4 1954)	-1.282	-3.596
	300801 (Strip #2)	-1.547	+8.669
	300802 (")	-2.721	-.623
	300803 (")	+3.827	+1.389

STRIP #4

		X error (ft)	Y error (ft)
	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
OMITTED	952100 (DUNE, 1964)	-2.808	+6.592
	954101 (HOMER EASTBASE 2, 1965 SUB PT)	-13.966	+20.221
	954110 (HOMER SPIT LIGHT 1964 VOR HOMER)	-6.957	+10.535
	304110 (RADIO MON. 1964 DANA 1965)	-1.881	+9.363
	305101 (SUB PT AURORA 1923)	+ .705	+2.009
	307101 (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 (CONT)	921801	(#2)	- .950	+2.448
	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	- .555
	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 (CONT)	818801	{#5}	+ .563	+ .060
	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 S. 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	- .065
954110	(HOMER SPIT LIGHT 1964)	- 1.210	- 1.041

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	GEODETIC DATUM		GEOGRAPHIC POSITION		REMARKS
				STATE	ZONE	ϕ LATITUDE	λ LONGITUDE	
TP-00803	CM-7412			N.A. 1927		Unit, AMC, Norfolk, VA		
		List of Control Kache-mak Bay Area, Alaska	301100	X=		ϕ 59 38 22.58460		
HOMAIR, 1964				Y=		λ 151 29 21.79168		
		List of Control Kache-mak Bay Area, Alaska	000058	X=		ϕ 59 38 39.09378		
WADE, 1923				Y=		λ 151 27 28.93150		
		Quad. 59151 Pg. 11	949110	X=		ϕ 59 38 27.128		
HOMER AERO LIGHT, 1956				Y=		λ 151 29 45.778		
		List of Control Homer to Soldotna Alaska	000052	X=		ϕ 59 39 47.80206		
WOOD, 1964				Y=		λ 151 33 13.43808		
		Quad. 59151 Pg. 11	948110	X=		ϕ 59 38 38.753		
HOMER RADIO RANGE CENTER TOWER, 1956				Y=		λ 151 32 18.662		
				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 6/8/76	COMPUTATION CHECKED BY J. Mauldin				DATE 6/8/76
LISTED BY A. Rauck			DATE 6/8/76	LISTING CHECKED BY J. Mauldin				DATE 6/8/76
HAND PLOTTING BY None			DATE	HAND PLOTTING CHECKED BY				DATE

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

TP-00803

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

Delineation junctioned well with joining manuscripts except for the area of low gradient mean lower low water line in the vicinity of latitude 59°38.0', longitude 151°27.0' with the 1:5,000 scale inset TP-00806. The mean lower low water line does not junction due to the different tide levels on the photography at the junction.

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to item 32.

46 - COMPARISON WITH EXISTING MAPS

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

Seldovia (C-4), Alaska, scale 1:63,360, dated 1961

Seldovia (C-5), Alaska, scale 1:63,360, dated 1961.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey charts:

No. 16645, scale 1:82,662, dated Mar. 13, 1976

No. 16640, scale 1:200,000, dated May 24, 1974.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

J. C. Moler
Jeffrey C. Moler
Cartographic Technician
April 19, 1979

Approved:

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

COMPILATION REPORT

TP-00803

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:30,000 scale color bridging photographs was used to delineate alongshore and interior detail, and to locate common image points to graphically control the the 1:30,000 scale infrared photography. Supplemental tide coordinated infrared ratio photographs for both MHW and MLLW were used to compile the MHW MLLW lines. Color film used in the RC 10(Z) camera was ratio printed black and white and used for graphic delineation of the MHW line where it was needed.

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

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Reports, 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 by the Wild B-8 stereoplotter and by 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 and graphic methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no charted aids for navigation but there are two charted landmarks within the limits of this map.

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00803

Beluga Lake

Coal Bay

Homer

Homer Airport

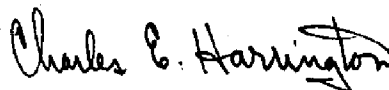
Homer Spit

Kachemak Bay

Miller's Landing

Mud Bay

Approved by;



Charles E. Harrington
Chief Geographer
Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-80
CM-7412
TP-00803

ALASKA
COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JULY 14 - JULY 16, 1980
(JD 196 - 198)

51 METHODS

Field edit operations for TP-00803 began on July 14, 1980 (JD 196) and ended on July 16, 1980 (JD 198). Field edit began after hydrographic operations had commenced on OPR-P114-RA-80. Hydrographic surveys H-9876 and H-9877 include all the shoreline within the limits of TP-00803.

Inspection of the shoreline was made during both low water and high water utilizing a vehicle, motorcycle and foot travel. Landmarks/Aids for charts were investigated from seaward.

Heights of rocks were estimated at close range. The times noted were GMT (Alaska Daylight Time +9 hours).

Shoreline and topographic notes were annotated on black and white chronopaque photographs 3976, 3977, and 4060 and/or the Master Film. Field Edit Ozalid. Annotations were made with the following ink colors: violet - verification or changes in features; green - deletion of features; red - hydrographic features.

52 ADEQUACY OF COMPILATION

The compilation of TP-00803 was adequate and complete except for minor changes. The changes were noted on photographs and/or the Master Field Edit Print. All compilation questions have been answered. The mean high water line was verified or changed by visual inspection and/or measurements from photo identifiable points or triangulation stations.

53 MAP ACCURACY

The map accuracy of TP-00803 was good. Two stations were used to check map accuracy. The inverse distance was computed between the published geodetic position and the geographic position as compiled on the NOAA Form 76-40 (See Separates).

<u>Station</u>	<u>Inverse (meters)</u>
Homer Radio Range, Center Tower, 1956	0.000
Homer Aero Light, 1956	1.145

54 RECOMMENDATIONS

Matte ratio photographs were not available for field use. Therefore, extreme care was necessary while using the chronopaque photographs in the field. It is recommended that matte ratio photographs be made available to the field parties in the future, which has been the normal procedure in the past.

56 MISCELLANEOUS

Open communication was maintained between the field editor and hydrographer. Any duplication of information was reviewed with only one

source being retained. Generally the determining factor was the field edit photographs. If the object in question was visible on the photographs, it was considered as field edit information, with the duplicating hydrographic data being deleted. If the object was not visible on the photograph it was considered as hydrographic information and reported as such.

All traingulation stations located within the limits of TP-00803 were visited. Recovery notes and other information are included in the "Separates Following the Text".

Respectfully submitted,

Richard L. Hastings

Richard L. Hastings, SST

Approved by,

Wayne L. Mobley

Wayne L. Mobley
Captain NOAA
Commanding Officer

REVIEW REPORT
TP-00803
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 U.S.G.S. quadrangles:
Seldovia (C-4), Alaska, scale 1:63,360, dated 1961
Seldovia (C-5), Alaska, scale 1:63,360, dated 1961.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the contemporary hydrographic survey H-9877, 1:20,000 scale, dated December 8, 1982. An area north of latitude 59°39.0' and east of longitude 151° 26.7' was not covered by H-9877, is covered by H-9876. H-9876 was not available for comparison at the time of final review July 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following NOS charts:
16645, scale 1:82,662, dated July 30, 1983
16645, scale 1:82,662, dated March 13, 1976
16640, scale 1:200,000, dated April 23, 1983.

The above listed charts compared well with this manuscript.

A Final Chart Maintenance Print indicating discrepancies 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-00803

Submitted by:

*Charles E. Blood / J. Byrd*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. Muney
Chief, Photogrammetry Branch,
Rockville*Ronald K. Brewer*
Chief, Photogrammetry Division,
Rockville

RESPONSIBLE PERSONNEL		ORIGINATOR	
TYPE OF ACTION	NAME		
OBJECTS INSPECTED FROM SEAWARD	W. Mobley	<input type="checkbox"/> PHOTO FIELD PARTY <input checked="" type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)	
POSITIONS DETERMINED AND/OR VERIFIED	R. Hastings L. Williams	FIELD ACTIVITY REPRESENTATIVE	
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	C. Blood	<input checked="" type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	
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 P - Photogrammetric L - Located Vis - Visually V - Verified 1 - Triangulation 5 - Field identified 2 - Traverse 6 - Theodolite 3 - Intersection 7 - Planetable 4 - Resection 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75		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.	
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.			

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

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 R-

[illegible]