

TP-00797

TP-00797

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-00797	<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 KASLOF TO BARREN ISLANDS	
<i>Locality</i> NINILCHIK	
<div style="border: 1px solid black; padding: 5px; text-align: center;">           19 75 TO 19 79         </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. 00797 MAP EDITION NO. (1) MAP CLASS Final JOB <del>XXX</del> CM-7412	
DESCRIPTIVE REPORT - DATA RECORD				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 Compilation - North Sect May 3, 1976 Amendment I Aug. 17, 1976 Amendment II Jan. 14, 1977				Premarking May 7, 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 1:5,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				S. Solbeck		Mar 1976	
METHOD: Analytic (North part) MARKS AND AIDS BY				J. Perrow, Jr.		Mar 1976	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				S. Solbeck		Mar 1976	
METHOD: Coradomat CHECKED BY				J. Perrow, Jr.		Mar 1976	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				G. Morris		Jan 1977	
COMPILATION CHECKED BY				J. R. Minton		Jan 1977	
INSTRUMENT: Wild B-8				CONTOURS BY		N.A.	
SCALE: 1:5,000				CHECKED BY		N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY				G. Morris		Jan 1977	
METHOD: Smooth drafted and				CHECKED BY		L. O. Neterer, Jr.	
graphic				CONTOURS BY		N.A.	
SCALE: 1:5,000				CHECKED BY		N.A.	
HYDRO SUPPORT DATA BY				G. Morris		Jan 1977	
CHECKED BY				L. O. Neterer, Jr.		Mar 1977	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				L. O. Neterer, Jr.		Mar 1977	
6. APPLICATION OF FIELD EDIT DATA BY				J. Roderick/D. Butler		Feb/Jul 80	
CHECKED BY				D. Butler/F. Mauldin		Jul 1980	
7. COMPILATION SECTION REVIEW BY				C. Blood		May 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-000797

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 10 Z (153.14 mm) Wild RC 8 E (152.71 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				<input checked="" type="checkbox"/> STANDARD	
<input checked="" type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN	
				150th	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
75Z(C)6820-6824	Jul.9,1975	11:48	1:15,000	12.8 ft. above MLLW	
75E(I)0885-0892*	Jul.9,1975	14:20	1:15,000	17.7 ft. above MLLW	
75E(I)0710, 10711**	Jul.9,1975	09:48	1:30,000	0.9 ft. below MLLW	
				Mean tide range at Seldovia: 16.7 ft.	

REMARKS There were no MLLW tide coordinated photographs covering this map at 1:15,000 scale; see item #3. Tide staffs were observed at Kenai and Seldovia for the infrared photography. Bridge and/or compilation photograph centers are not shown on this manuscript. 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. The tide level was determined from a tide staff at Kenai.

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

\*\*A MLLW line was graphically compiled from the mean lower low water photograph coverage for the 1:20,000 scale map TP-00796. The ratio prints were used in the vertical projector holding common detail and photo points for control to compile the MLLW line shown. The tide level for these photographs was determined from the predicted tide tables.

## 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-00796	TP-00796	TP-00796	TP-00796

REMARKS This 1:5,000 scale manuscript lies within the limits of TP-00796, a 1:20,000 scale manuscript.

## 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 R. Melby	June 1975
	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 None	
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) None			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input 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)  2 Forms 277 (Tides record book)			

NOAA FORM 76-36C  
(3-72)TP-00797 U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	W. Mobley	Jul-Aug 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 J. Greene	Jul 1979
	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 None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N.A.	

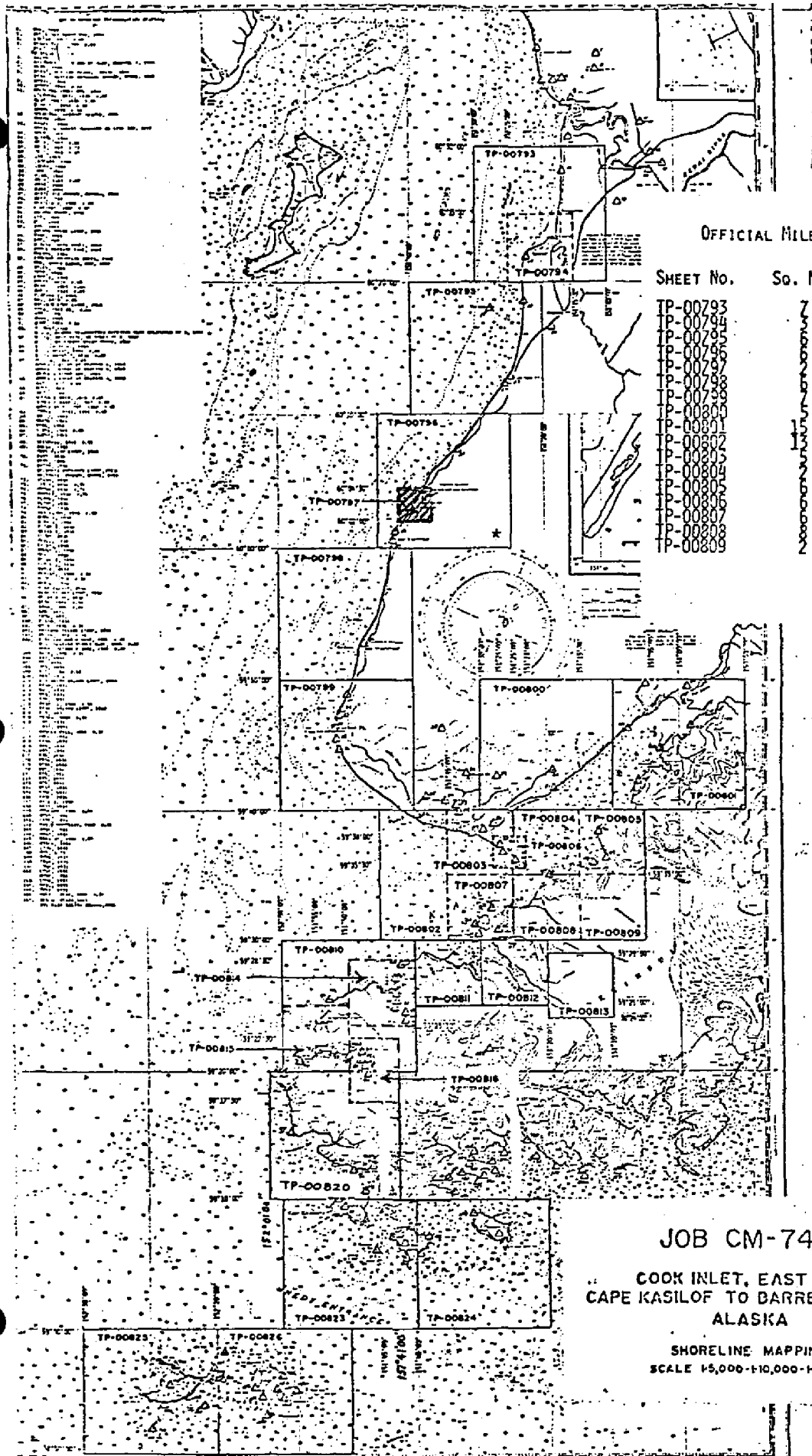
## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
None		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
None			
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		2 Form 76-40	
Master Field Edit Print			
paper computer sheet with rock positions			

NOAA FORM 76-36C  
(3-72)

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION TP-00797		
<b>RECORD OF SURVEY USE</b>				
<b>I. MANUSCRIPT COPIES</b>				
COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete, pending field edit	Jan 1976	Class III Manuscript	Apr. 4, 1977	Mar. 30, 1977
Partial field edit applied	Feb 1980	Class III Manuscript	None	None
Field edit applied, compilation complete.	July 1980	Class I Manuscript	July 1980	
Final Review	Sept. 1985	Final Map	mar 1986	mar 1986
<b>II. LANDMARKS AND AIDS TO NAVIGATION</b>				
<b>1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH</b>				
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS	
1		July 1980	Landmark to be Charted	
1		July 1980	Non-floating aid to be Charted	
<b>2. <input checked="" type="checkbox"/> REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: <u>July 1980</u></b>				
<b>3. <input type="checkbox"/> REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: <u>None</u></b>				
<b>III. FEDERAL RECORDS CENTER DATA</b>				
<b>1. <input checked="" type="checkbox"/> BRIDGING PHOTOGRAPHS; <input checked="" type="checkbox"/> DUPLICATE BRIDGING REPORT; <input checked="" type="checkbox"/> COMPUTER READOUTS.</b>				
<b>2. <input type="checkbox"/> CONTROL STATION IDENTIFICATION CARDS; <input checked="" type="checkbox"/> FORM NOS 581 SUBMITTED BY FIELD PARTIES.</b>				
<b>3. <input checked="" type="checkbox"/> SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:</b>				
<b>4. <input type="checkbox"/> DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____</b>				
<b>IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)</b>				
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	7	TP-00810	17
TP-00794		TP-00811	
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			
TP-00802			
TP-00803			
TP-00804			
TP-00805		TP-00823	19
TP-00806		TP-00824	
TP-00807		TP-00825	
TP-00808		TP-00826	
TP-00809		TOTAL	195

REVISED 9/23/76 E.W.N.  
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-00797

This 1:5,000 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 is a 1:5,000 scale inset of the 1:20,000 scale map TP-00796; it portrays the west coast of Cook Inlet area north of Kachemak Bay from latitude 60°02' north to latitude 60°04.5'.

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 July 1975.

Photographic coverage was adequately provided by natural color and infrared tide coordinated photographs. The RC-10 (Z) camera was used to expose the natural color film required for the 1:15,000 scale aerotriangulation, compilation photographs July 1975. The RC-8 (E) camera was used for the infrared black and white 1:15,000 and 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 March 1976. 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 in March 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 1979 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 July 1980.

Final review was performed at the Atlantic Marine Center in 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-00797

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 G.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<sup>796</sup>, 798<sup>799</sup>, 800<sup>801</sup>, 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.

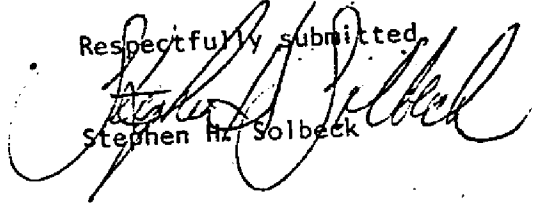
24. Supplemental Data

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

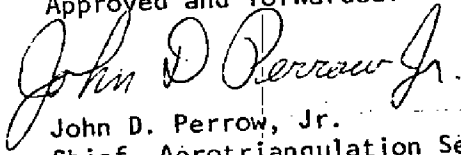
25. Photography

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, Aérotriangulation Section



## AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

MARCH 1976

△ RNG, KENAI RADIO  
ENA, 1964

△ KENAI, 1964

KENAI RUSSIAN  
CHAPEL SPIRE 1964

60° 30' 00"

AUDRY, 1961

TP00793

TP00794

PT. 2, 1963

TP00795

51° 10' 00"

△ CLAM, 1964

TP00796

6814

△ CHIK RM 2, 1964

TP00797

6827

△ DEEP, 1964

60° 00' 00"

TP00798

△ STARISKY, 1964

TP00800

AUORA  
1923

△ JOLLY, 1965

△ END, 1968

TP00799

0057  
DANA  
1965BLUFF PT2  
1962HOMER EAST  
BASE 2, 1963

DUNE, 1964

HOMER EAST BASE 2, 1963

51° 30' 00"

COLOR FOR RATIO

75Z(c)

● 1:15000

■ 1:30000

75E(c)

▲ 1:30000



## AEROTRIANGULATION SKETCH

COOK INLET, ALASKA

NORTH HALF

CM-7412

MARCH 1976

△ RNG, KENAI RADIO,  
ENA, 1964

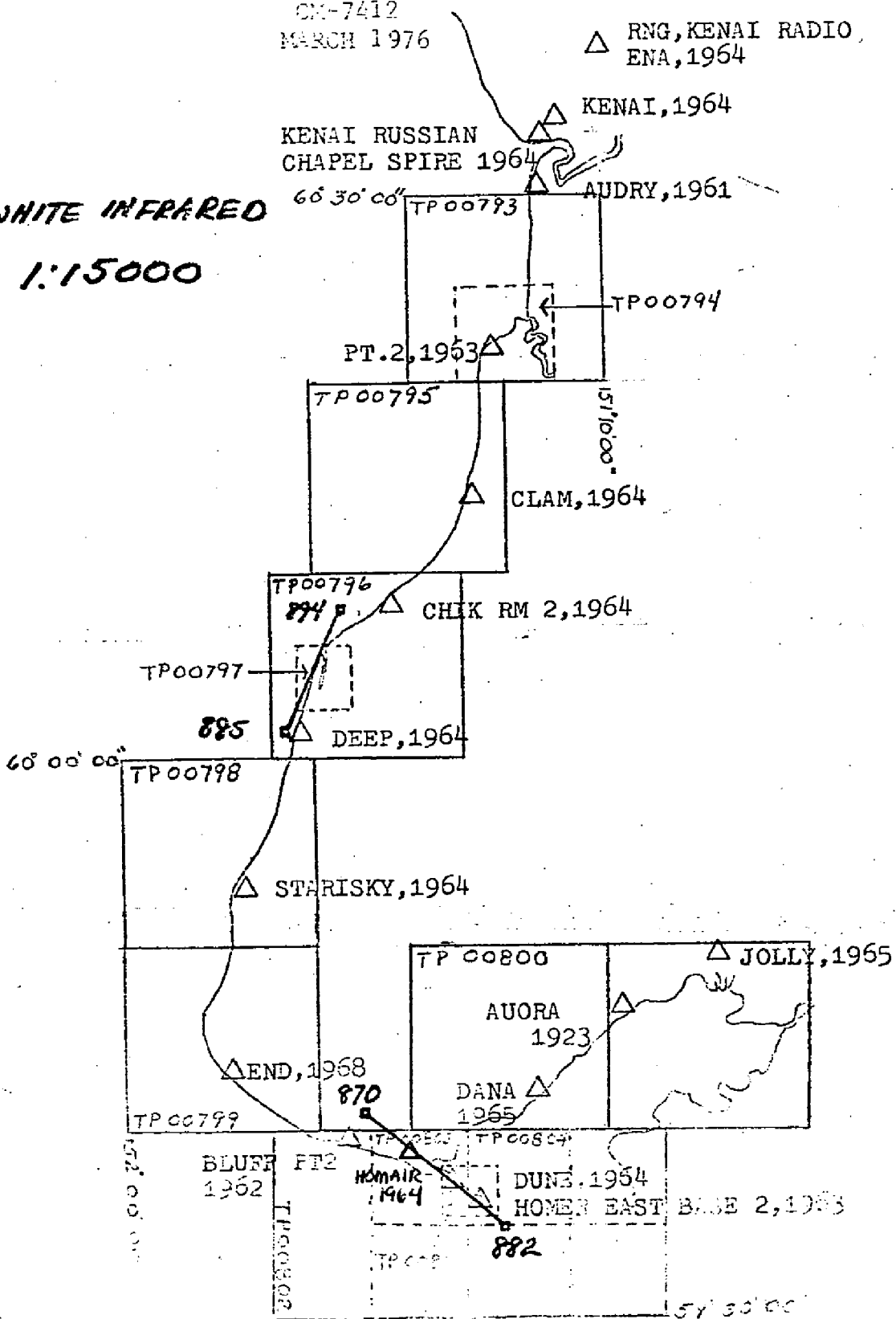
△ KENAI, 1964

KENAI RUSSIAN  
CHAPEL SPIRE 1964

AUDRY, 1961

BLACK AND WHITE INFRARED

75 E(R) 1:15000

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~~

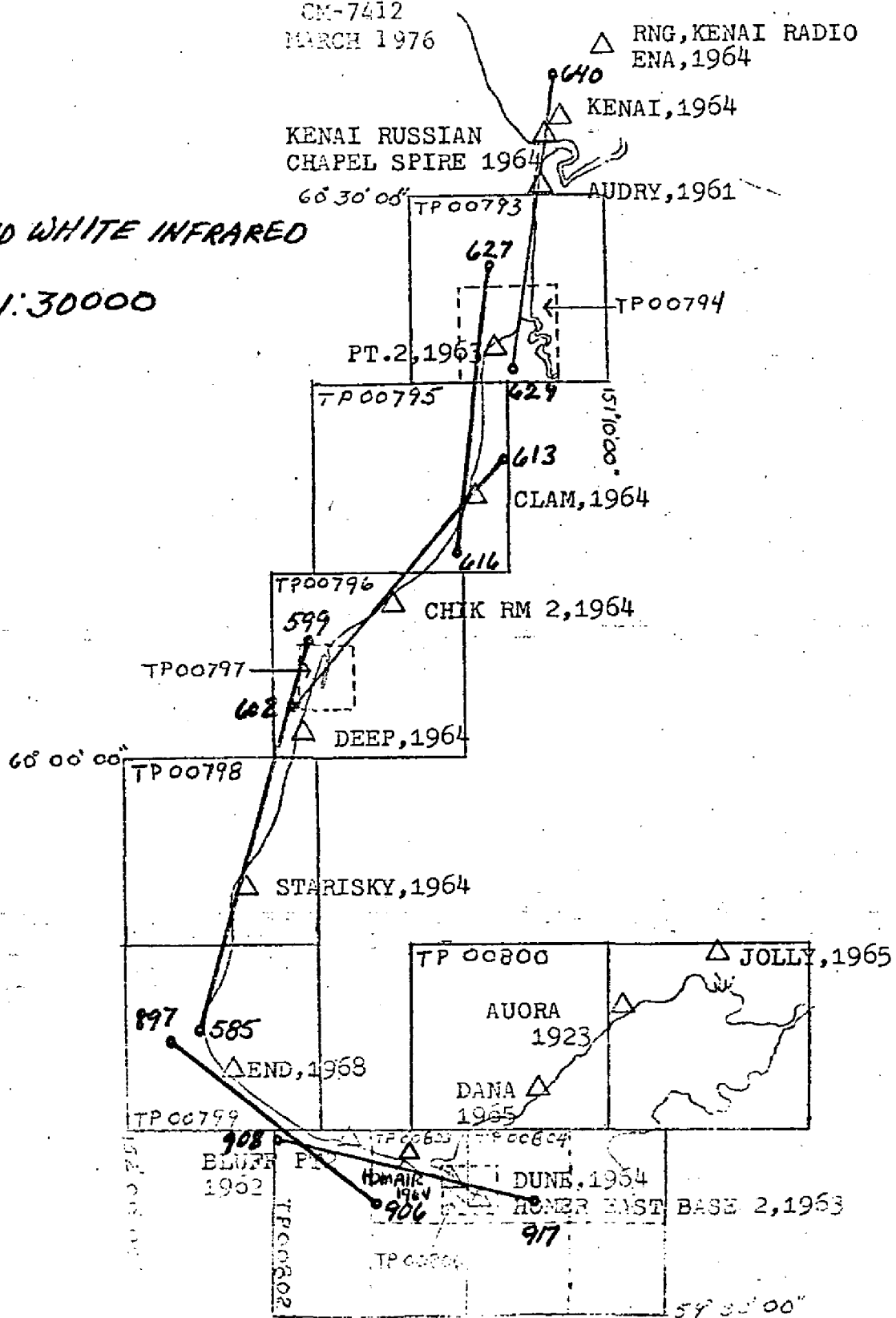
60° 30' 05"

BLACK AND WHITE INFRARED

75 E(R)

1:30000

MHW





# 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 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 ( <del>BLUFF POINT 2</del> DUNE <del>PT 4, 1954</del> 1964)	-.316	+3.060
	949110 (HOMER AERO LT 1954)	+2.374	+3.742
	948110 (HOMER RADIO RANGE CENTER TOWER 1954)	-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	-2.051
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 AGRO LT 1956)	-6.364	- .260
949802	(#9)	-1.658	- .053
949803	(#9)	+ .336	- .28
17801	(#3)	-3.734	+2.154
301101	(HOMER AIR 1964 SUB PT)	- .465	+ .351
952100	(DUNE, 1964)	-2.808	+6.592
954101	(HOMER EASTBASE 2, 1965 SUB PT)	-13.966	+20.22
954110	(HOMER SPIT LIGHT 1964)	-6.957	+10.535
304110	(VOR HOMER RADIO MON. 1964 DANA 1965)	-1.881	+9.363
305101	(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 (CONT)	921801	(#2)	- .950	+2.448
	291101	(CHIK RM 2 1964 SUB PT)	-4.528	+ .221
	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)	+1.302	- .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	+3.693
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
	<del>821802</del>	<del>(#5)</del>		
	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 HERO 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		ORIGINATING ACTIVITY	REMARKS
				COORDINATES IN FEET STATE Alaska ZONE 4	GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE		
TP-00797	CM-7412	List of Control Homer to Soldona Alaska, p.2	000027	N.A. 1927	Unit, AMC, Norfolk, VA	Coastal Mapping	
NINILCHIK CHURCH CUPOLA, 1909				$x =$	$\phi$ 60 03 03.04152		
				$y =$	$\lambda$ 151 39 47.04013		
				$x =$	$\phi$		
				$y =$	$\lambda$		
				$x =$	$\phi$		
				$y =$	$\lambda$		
				$x =$	$\phi$		
				$y =$	$\lambda$		
				$x =$	$\phi$		
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				$y =$	$\lambda$		
				$x =$	$\phi$		
				$y =$	$\lambda$		
				$x =$	$\phi$		
				$y =$	$\lambda$		
COMPUTED BY A. Rauck			DATE 6/7/76	COMPUTATION CHECKED BY F. Mauldin			DATE 6/16/76
LISTED BY A. Rauck			DATE 6/7/76	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-00797

31 - DELINEATION

Delineation was by stereoplotter and graphic methods. The Wild B-8 stereoplotter with 1:15,000 scale color photographs was used to delineate the shoreline and interior details and to locate common detail points needed for the graphic use of the infrared photography. The MHW infrared tide coordinated black-and-white 1:15,000 scale ratio photographs were used to graphically compile the MHW line. The mean lower low water line was graphically delineated from the 1:30,000 scale infrared black-and-white photographs furnished for the 1:20,000 scale manuscript TP-00796 by using the vertical projector.

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 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 methods as described in item #31.

37 - LANDMARKS AND AIDS

There is one aid for navigation and one landmark shown on this manuscript. The landmark church cupola is visible from seaward from west and south; it is not visible from north due to the terrain.

TP-00797

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-5), 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 1:200,00, dated May 25, 1974, with Ninilchik  
Harbor inset, 1:15,000 scale.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

*J. Byrd for*  
George Morris  
Cartographic Technician  
January 24, 1977

Approved:

*J. Byrd for*  
Albert C. Rauck, 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 - 00797

Cape Ninilchik

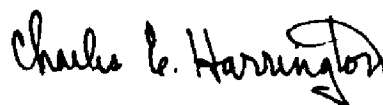
Cook Inlet

Deep Creek

Ninilchik

Ninilchik River

Approved by;



Charles E. Harrington  
Chief Geographer  
Nautical Charting Division



## FIELD EDIT REPORT

OPR-P114-RA-79

CM-7412

TP-00797

## ALASKA

Cook Inlet, East Side  
Cape Kasilof to Barren Islands

1 Field Edit

11 July 1979 - 10 August 1979  
(J.D. 192 - J.D. 222)

Reference (a) Hydro Manual  
(b) Manual of Coastal Mapping Field Procedures, Ch 11  
(c) Project Instructions; OPR-P114-RA-79  
(d) PMC OORDER

Enclosures (1) Abstract of Positions  
(2) NOAA Form 76-36A, Descriptive Report - Data Record  
(3) NOAA Form 76-36B, Compilation Sources  
(4) NOAA Form 76-36C, History of Field Operations  
(5) NOAA Form 76-36D, Record of Survey Use  
(6) NOAA Form 76-40, Non-Floating Aids for Charts  
(7) NOAA Form 76-40, Landmarks for Charts  
(8) Master Signal Tape Listing

Separates (1) Chronopaque Photographs 9 July 75 ER(1) - 885-892  
(2) Master Film Field Edit Ozalid  
(3) Computer Plot of all Visually Located Rocks

## METHODS

Field edit operations on TP-00797 were commenced on July 11, 1979 (J.D. 192) and completed on August 10, 1979 (J.D. 222). The field edit was conducted in accordance with references (a) through (d). Hydrographic operations were not conducted on TP-000797 concurrently with the field edit. All offshore data collected by the Field Editor not visible on the photographs was reported as hydrography as part of survey H-9835, OPR-P114-RA-79. This survey was conducted concurrently with the field edit, at a scale of 1:20,000 in an area adjacent to TP-000797. Inspection of the shoreline was made during periods of predicted zero or negative tide levels utilizing a Boston Whaler, four wheel drive vehicle or on foot. All offshore rocks were located by visual hydrographic methods. The resulting position plot, separate (3), was then compared with the photos and master film field edit ozalid for verification of compiled features.

Landmarks for charts were investigated from a Boston Whaler and from the ship RAINIER while in the project area. All existing landmarks and aids to navigation were inspected on site and verified in accordance with reference (b).

Heights of all rocks investigated were estimated at close range. All times noted are GMT (local + 9 hours). A fix number was assigned to each item investigated and a master listing is attached as enclosure (1). Unless otherwise stated all fixes are on single rocks.

Shoreline and topographic notes are annotated on the master film field edit ozalid. No annotations were made on the chronopaque photographs. All annotations were made using colors with the following meaning: Violet, verification of compiled features, green deletion of compiled features. Rocks verified on the master film field edit ozalid are annotated with the fix number only and all pertinent data can be obtained by cross referencing the fix number found in enclosure (1).

## ADEQUACY AND COMPLETENESS OF COMPILATION

The compilation of TP-00797 is adequate and complete except where noted in this report or on the master film field edit ozalid. The MHWL and inshore features are accurately delineated. The MLLWL could not be verified by the field editor at the scale of this survey as there were no low water photographs available. The

MLLWL does, however, appear to be accurately presented as noted by field observations and by comparison to photographs 09 July 75 ER(I) 0709, flown in conjunction with TP-00796.

#### MANUSCRIPT ACCURACY

While conducting the survey of TP-00797, thirty-three rocks were investigated. One rock was verified as compiled, no compiled rocks were or should be deleted and thirty-two new rocks were found. None of the rocks bare at mean high water. Of the thirty-three rocks investigated none are visible on the photographs and therefore all were transferred to and reported as hydrography.

#### RECOMMENDATIONS AND MISCELLANEOUS COMMENTS

Fifteen rocks appearing on TP-00797 were neither verified nor deleted. The primary reason for this was the inadequacy of low water photography. As there were no low water photographs at the scale of the survey all rocks investigated were positioned by visual hydrographic methods and the resultant position plot compared with the master film field edit ozalid. Using this method only one rock coincided with those compiled on the ozalid. The low water photographs flown for TP-00796 were of little value as there was no ozalid copy at the 1:20,000 scale covering the area of the survey.

Due to the large number of rocks and poor water clarity in the area of TP-00797 it is imperative to have adequate low water photography to accurately verify or disprove the existence of compiled features.

The commercial salmon cannery located on the wharf in Ninilchik was destroyed by fire in June 1979. A new cannery is being rebuilt in the same location but no construction plans were available at the time the field edit was conducted.

Commercial salmon fishing season was open during the months of June and July. In the northern half of the area covered by TP-00797 numerous fishing floats were present along shore throughout this period. As the photography was flown during this same period in July 1975 it is possible that some items compiled as rocks were, in fact, buoys or small boats tending nets.

Enclosure (1) is attached as a cross reference of all items investigated during the survey of TP-00797. All items were reported as hydrography as indicated in the recommendation column.

Enclosures (2) through (8) contain other information pertinent to this report.

Respectfully Submitted,

*Joseph C. Talbott*

Joseph C. Talbott  
Lieutenant, Junior Grade, NOAA

REVIEW REPORT  
TP-00797  
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-5), Alaska, scale 1:63,369, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

A comparison was made with the following contemporary  
hydrographic survey:  
H-9835, scale 1:20,000, dated March 16, 1982.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the NOS chart:  
16640, scale 1:200,000, dated April 23, 1983, with Ninilchik Harbor  
inset 1:5,000 scale.

The above listed chart 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-00797

Submitted by,

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

Approved for forwarding,

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

Approved,

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

Replaces C&amp;GS Form 567.

## NONFLOATING AIDS OR UNKNOWN AIDS FOR CHARTS

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF ECONOMIC ANALYSIS  
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)

<input type="checkbox"/> TO BE CHARTED <input type="checkbox"/> TO BE REVISED <input type="checkbox"/> TO BE DELETED	REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
	Coastal Mapping Div., AMC, Norfolk, VA	Alaska	Cook Inlet, East Side Cape Kasilof to Barren Is.	Sept. 1985

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

The following objects HAVE ☒ HAVE NOT ☐ been inspected from seaward to

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
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OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
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OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
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OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
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[illegible]

CHARTING NAME	DESCRIPTION
	(Record reason for deletion of landmark or aid to navigation.
	Show triangulation station names, where applicable, in parentheses.)

CHARTING NAME	DESCRIPTION	LA
	(Record reason for deletion of landmark or aid to navigation.	
	Show triangulation station names, where applicable, in parentheses)	0 /

CHARTING NAME	DESCRIPTION	LATITUDE
	(Record reason for deletion of landmark or aid to navigation.	
	Show triangulation station names, where applicable, in parentheses)	0 /
		0 //
		D.M. Merits
		0

CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE	
	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	° /	° /	° /	° /
		D.M. Meters	D.M. Meters	D.P. Meters	D.P. Meters

CHARTING NAME	DESCRIPTION	LATITUDE		LONGITUDE	
	(Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	° /	° /	° /	° /
		D.M. Meters	D.M. Meters	D.P. Meters	D.P. Meters

CHARTING NAME	DESCRIPTION  (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses.)	LATITUDE		LONGITUDE		OFFICE	FIELD
		°	'	°	'		
			11		11		
						D.M. Merers	D.D. Merers

CHARTING NAME	DESCRIPTION  (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	LATITUDE		LONGITUDE		OFFICE	FIELD	AFFECTED
		° /	"	° /	"			
		D.M.	Meters	D.P.	Meters			



RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	J. Greene
POSITIONS DETERMINED AND/OR VERIFIED	J. Greene
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	J. Roderick
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION'	
(Consult Photogrammetric Instructions No. 64.)	
OFFICE	FIELD (Cont'd)
1. 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	8. 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	11. 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
1. 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	111. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75
A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 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.	

Replaces C&amp;GS Form 567.

## NONFLUORINATING OR LANDMARKS 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)

REPORTING UNIT (Field Party, Ship or Office)	STATE	LOCALITY	DATE
Coastal Mapping Div., AMC, Norfolk, VA	Alaska	Cook Inlet, East Side Cape Kasilof, to Barren Is.	Feb 1980

The following objects HAVE ☒ BEEN INSPECTED FROM SEAWARD TO DETERMINE THEIR VALUE AS LANDMARKS.

**DATUM**

**SURVEY NUMBER**

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### METHOD AND DATE OF LOCATION

**See inside**

ctions:

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POSITION

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TP-00797

CM-7412

P174

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)
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RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	J. Greene
POSITIONS DETERMINED AND/OR VERIFIED	J. Green
	J. Rogerick
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW	<input checked="" type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
ACTIVITIES	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE <input 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.)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> 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	<b>FIELD (Cont'd)</b> <b>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.</b> EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> 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	<b>II. TRIANGULATION STATION RECOVERED</b> 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 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 <b>**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.</b>
*FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	

