NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

Map No.	<u> </u>	Edition No.
	TP-00801	1
Job No.		
	CM-7412	
Map Clas	sification	
	FINAL MAP - FIELD ED	TED
Type of S	Survey	
	SHORELINE	
	LOCALIT	Υ
State		
	ALASKA	
General i	Locality COOK INLET, EAS	ST SIDE
		BARREN ISLANDS
Locality		
	HEAD OF KACHEMAK BAY	
<u> </u>		
	19 75 TO 1	9 80
		
	REGISTERED IN A	RCHIVES
DATE		

NOAA FORM 76-36A (3-72) NATIONAL OCEANIC AND A	ENT OF COMMERCE	TYPE OF SURVEY	SURVEY	TP- 00801
	· · · · · · · · · · · · · · · · · · ·	☑ ORIGINAL	MAPEDITI	он но. (1)
DESCRIPTIVE REPORT - DATA	RECORD	RESURVEY .	MAP CLAS	s~ Final
		REVISED		CM-7412
PHOTOGRAMMETRIC OFFICE		LAST PRECEED	ING MAP EDI	TION
Coastal Mapping Division, AMC,		TYPE OF SURVEY		PH
Norfolk, VA	<u>, </u>	D ORIGINAL		s
OFFICER-IN-CHARGE	•	RESURVEY	SURVEY D	ATES:
Roy K. Matsushige		□ REVISEO	19E1	9
I. INSTRUCTIONS DATED				
1. OFFICE		2.	FIELD	
	May 3, 1976 Aug. 17, 1976		May 6,	1975
	Jan. 14, 1977			
Aerotriangulation - South Sect (Compilation - South Sect (•			
compilation = South Sect 1	nug. 2, 1979			
II. DATUMS				
I. HORIZONTAL: XX 1927 NORTH	I-AMERIC AN	OTHER (Specify)		
		OTHER (Specify)		
2. VERTICAL: MEAN LOW- MEAN LOW- MEAN LOW- MEAN SEA L	WATER ER LOW-WATER	·		
3. MAP PROJECTION	•		GRID(S)	
Transverse Mercator	•	Alaska	ZONE 4	
5. SCALE 1:20,000		STATE	ZONE	-
III. HISTORY OF OFFICE OPERATIONS			1	· · · · · · · · · · · ·
OPERATIONS		NAME	<u> </u>	DATE
1. AEROTRIANGULATION North Sect and	ВҮ	S. Solbeck, B. The	ornton	Mar 76, Jan 7
METHOD: Analytic South Sect ANDM	ARKS AND AIDS BY	J. Perrow, Jrr.		Mar 76,Jan7
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	S. Solbeck, B. The	ornton	Mar 76,Jan7
METHOD: Coradomat	CHECKED BY	J. Perrow, Jr.		Mar 76, Jan 7
3. STEREOSCOPIC INSTRUMENT		D. Butler		Feb. 1978
COMPILATION	CHECKED BY	L. Neterer, Jr.		Feb. 1978
INSTRUMENT: Wild B-8 SCALE: 1:20.000	CONTOURS BY	N.A.		
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	D. Butler	<u> </u>	Mar 1978
	CHECKED BY	L. Neterer, Jr.		Apr 1978
	CONTOURS BY	N.A.		
METHOD:	CHECKED BY	N.A?		
SCALE: 1:20,000	SUPPORT DATA BY	D. Butler		Mar 1978
<u></u>	CHECKED BY	L. Neterer, Jr.		Apr 1978
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	L. Neterer, Jr.		Apr 1978 May 1981
6. APPLICATION OF FIELD EDIT DATA	CHECKED BY	L. Williams C. Blood		Jul 1981
7. COMPILATION SECTION REVIEW	BY	C. Blood		Jul 1981
 				Jul 1985
8. FINAL REVIEW	ВҮ	C. Blood/J. Byrd		fort taes
8. FINAL REVIEW 9. DATA FORWARDED TO PHOTOGRAMMETRIC BI		C. Blood/J. Byrd J. Byrd		Nov. 1985
	RANCH BY			

NOAA FORM 76-36B (3-72)	COM	TP-00801		IC AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION AL OCEAN SURVEY	
1. COMPILATION PHOTOGRAP						
CAMERA(S) Wild RC 8E 1 RC 10C 88.47/RC 10Z	52.71 mm 153.14 mm		PHOTOGRAPHY GEND	TIME REF	ERENCE	
TIDE STAGE REFERENCE		(C) COLOR		ZONE		
PREDICTED TIDES		(P) PANCHRO	DMATIC	Alaska	XX STANDARD	
XX REFERENCE STATION RECO		(I) INFRARE		MERIDIAN 150th	DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE O	F TIDE	
75C(C)6306-6310#	Jul.5,1975	13:33	1:60,000	9.8 ft. above	WITE	
76C(C)4979-4981#	Jun.11,1976	07:52	1:60,000			
75E(I)094640951**	Jul.10,1975	09:32	1:30,000	3.6 ft. below MLLW 2.0 ft. below MLLW		
75E(I)0962-0970**	Jul.10,1975	09:45	1:30,000	1.3 ft. below		
75Z (C) 7500-7506**	Aug.10,1975	13:40	1:30,000	16.4 ft. abov		
75E(I)1553-1560*	Aug.10,1975	15:51	1:30,000	18.4 ft. abov		
				Mean tide range 15.4 Seldovia		
REMARKS Bridge and/or	compilation pho	tograph cer	nters are not	shown on the	manuscript	
A tide gage was read The Mean High Water a	at Seldovia dur	ing the tir	me of infrare	d phótograph e	exposure.	
2. SOURCE OF MEAN HIGH-WA	TER LINE:	1.0 It. and	ove MLLW.			
				,		
*The MHWL was comp color photographs by graphic method:	using stereo in	strument me	thods. Comp	ilation was su	pplemented	
Black and white ra	atio photographs	7 5 Z(C) 7 5	500-7 5 06 were	used graphica	illy.	
			,			
3. SOURCE OF MEAN CONKINAT	REAR OUT MEAN LOWER LO	W-WATER LINE:	-		· · · · · · · · · · · · · · · · · · ·	
		11 6	#16 10	de coordinated		

SURVEY NUMBER	DATE(S)		SURVEY COPY USED	SURVEY NUMBER	DATE(S)		SURVEY COPY USEC
				<u> </u>			
5. FINAL JUNCTION	NS						
NORTH		EAST		SOUTH		WEST	
No Sur	vey		No Survey	TP-0080	05	İ	TP=00800

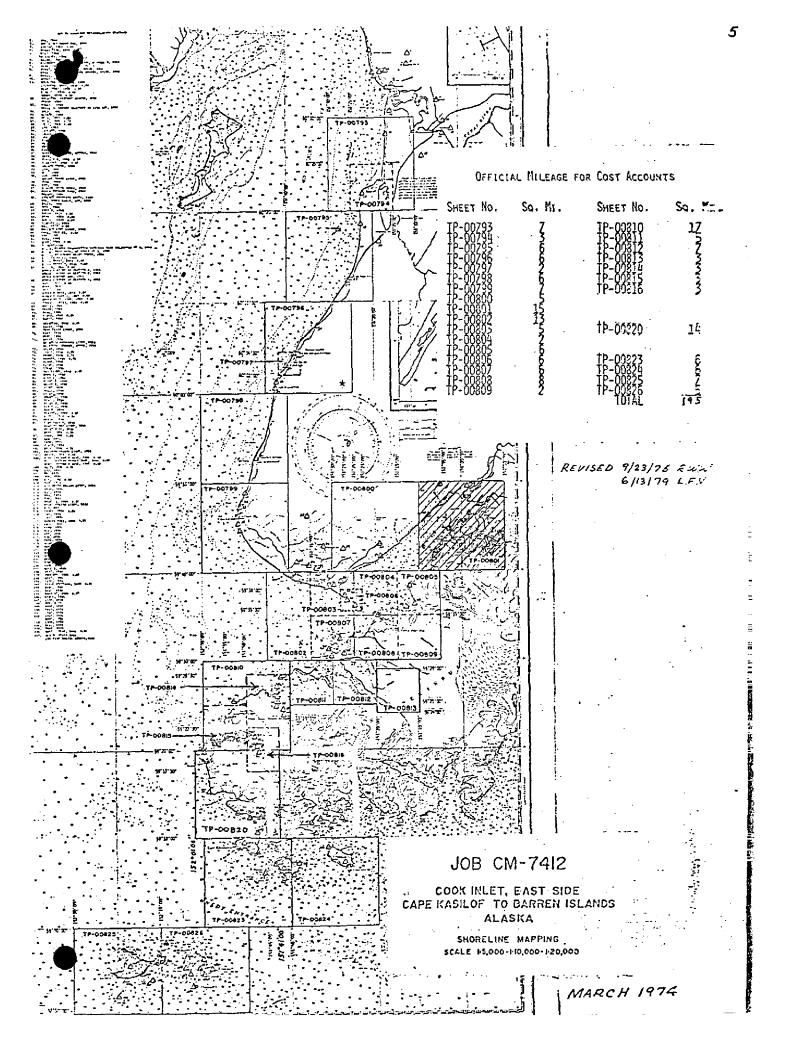
NDAA FORM 76-36C 3-72)	TP-008 History of Field		IC AND A	DEPARTMENT TMOSPHERIC AS NATIONAL (DMINISTRATI
I. XX FIELD INSPECTION O	PERATION (Premarking)	D EDIT OPERATION			· · · ·
	OPERATION	N/	AME		DATE
1. CHIEF OF FIELD PARTY					
		R. Melby			un 75,53
2. HORIZONTAL CONTROL	RECOVERED BY	L. Riggers			un 75, 7
Z. HORIZONIAL CONTROL	PRE-MARKED OR IDENTIFIED BY	None L. Riggers			un 75, 7
	RECOVERED BY	N.A.			uii 75,
3. VERTICAL CONTROL	ESTABLISHED BY	N.A.		<u> </u>	
o, valled out the	PRE-MARKED OR IDENTIFIED BY	N.A.			
		None		 -	
4. LANDMARKS AND	RECOVERED (Triangulation Stations) BY	None			
AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None			
	TYPE OF INVESTIGATION	None			
5. GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	SPECIFIC NAMES ONLY	1		ļ	
	XXNO 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 I	DENTIFIED	2. VERTICAL CONT	ROL IDE	NTIFIED	
Paneled		None			
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	5	TATION DESIGN	A TION
76C(C) 4980 AURORA 76C(C) 4977 JOLLY	A, 1923 . 1965				
3. PHOTO NUMBERS (Clarific	cation of details)				
<u>None</u>					
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED				
None		<u> </u>			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER		OBJECT NAM	।ह
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AND	I IMITS:	REPORT	XX NONE
7. SUPPLEMENTAL MAPS AN		To SOURCE VED	EIGH (3)	L REPORT	HONE
None					
	(Sketch books, etc. DO NOT list data submit	tted to the Geodesy Div	ision)		
4 Forms 15		,,	•		
	nta: 2 Forms 277, 1 Form 7	7-53 (Tides Re	cord E	Books)	
		- ,			

NUAA FORM 76-36C (3-72)		TP-00801 History of Field		ANIG AND ATMOSPHERI	ENT OF COMMER C ADMINISTRATI AL OCEAN SURV
I FIELD INSPEC	CTION OPERATION	XX FIEL	D EDIT OPERATION	·	
	OPERATION	N .		NAME	DATE
1. CHIEF OF FIELD	PARTY	, <u> </u>	7. W-h 7	_]
		RECOVERED BY	W. Mobley J. Talbott		Jul 1980 Jun 1980
2. HORIZONTAL COI		ESTABLISHED BY		_	Jun 1980 Jun 1980
6 11-11-1		-MARKED OR IDENTIFIED BY			Oun 1500
		RECOVERED BY			T
3. VERTICAL CONTI	ROL	ESTABLISHEÐ BY	i .		
·	PRE	-MARKED OR IDENTIFIED BY			
		ED (Triangulation Stations) BY	None		
4. LANDMARKS AND AIDS TO NAVIGAT		LOCATED (Field Methods) BY	None		Ţ <u>,</u>
AIDS TO HELLE.		IDENTIFIED BY	None		<u> </u>
	_	YPE OF INVESTIGATION			
5. GEOGRAPHIC NAM INVESTIGATION		COMPLETE BY			
IN v top 1 years 1.		SPECIFIC NAMES ONLY MO INVESTIGATION			
THOTO INSPECT			D Wastings		T 1980
6. PHOTO INSPECTI 7. BOUNDARIES AND		RIFICATION OF DETAILS BY	R. Hastings N.A.		Jun 1980
II. SOURCE DATA	J LIMITS	RVEYED OR IDENTIFIED +.	IN.A.		
HORIZONTAL CON	NTROL IDENTIFIED	, , , , , , , , , , , , , , , , , , , ,	2. VERTICAL CO	NTROL IDENTIFIED	
None			None		. <u></u>
PHOTO NUMBER	ST/	ATION: NAME	PHOTO NUMBER	STATION DES	SIGNATION
3. PHOTO NUMBERS 75 E(I) 095 75 E(I) 155 4. LANDMARKS AND	51, 0963-0966, 58, 1559	, 0968			
None	-				
PHOTO NUMBER	ОВ.	DJECT NAME	PHOTO NUMBER	OBJECT.	NAME
5. GEOGRAPHIC NAM	MES: REPO	ORT XX NONE	6. BOUNDARY AN	1 ID LIMITS: REPOR	RT XX NONE
7. SUPPLEMENTAL I		A manage			
	d Edit Print	ks, etc. DO NOT fist data submi	tted to the Geodesy D	rivision)	

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72)TP-00801 RECORD OF SURVEY USE I. MANUSCRIPT COPIES DATE MANUSCRIPT FORWARDED COMPILATION STAGES DATA COMPILED DATE REMARKS MARINE CHARTS HYDRO SUPPORT Compilation complete, pending field edit Mar. 1978 Class III Manuscript Apr. 27, 1978 Feb. 21, 1980 Field edit applied. Compilation complete Jul 1981 Class I Manuscript 1981 mar 1916 Final Review Jul 1985 Final Map II. LANDMARKS AND AIDS TO NAVIGATION <u>None</u> 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER REMARKS NUMBER NUMBER ASSIGNED FORWARDED None 2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: III. FEDERAL RECORDS CENTER DATA 1. 🙀 BRIDGING PHOTOGRAPHS; 🔯 DUPLICATE BRIDGING REPORT; 🙀 COMPUTER READOUTS. 2. X CONTROL STATION IDENTIFICATION CARDS; FORM NOS BESTERMITTED BY FIELD PARTIES. 3. XX SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4.	DATA	то	FEDERAL	RECORDS	CENTER.	DATE	FORWARDED:

	SURVEY NUMBER	JOB NUMBER			F SURVEY
SECOND	TP(2)	PH		REVISED	RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP	CLASS
			□n.	□111. □1V	. 🔲 V. 🔲 FINAL
	SURVEY NUMBER	JOB NUMBER	1	TYPE O	FSURVEY
THIRD	TP(3)	PH		REVISED	RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT		MAP	CLASS
			□n.	□ııı. □ıv	. 🗍 V. 🗎 FINAL
	SURVEY NUMBER	JOB NUMBER		TYPE O	FSURVEY
FOURTH	TP(4)	PH	1	REVISED	RESÚRVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	_լ	MAP	CLASS
EDITION		li de la companya de		□ m. □w.	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00801

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 covers the head of Kachemak Bay shoreline. The area shown is between longitudes 150°50.0' and 151°10.0' and between latitudes 59°40.0' and 59°50.0'.

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 1976.

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 and June 1976. The RC-8 (E) camera was used for the infrared black-and-white 1:30,000 scale photographs taken July, August 1975. The infrared photographs were used to supplement the color compilation photography. Ratio photographs taken with the RC-10(Z) camera using color film were printed as black and white, and used graphically.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project in March 1976, and the south half of the project in January 1977. 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 April 1978. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted May through 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 July 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-00801

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, 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 752(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

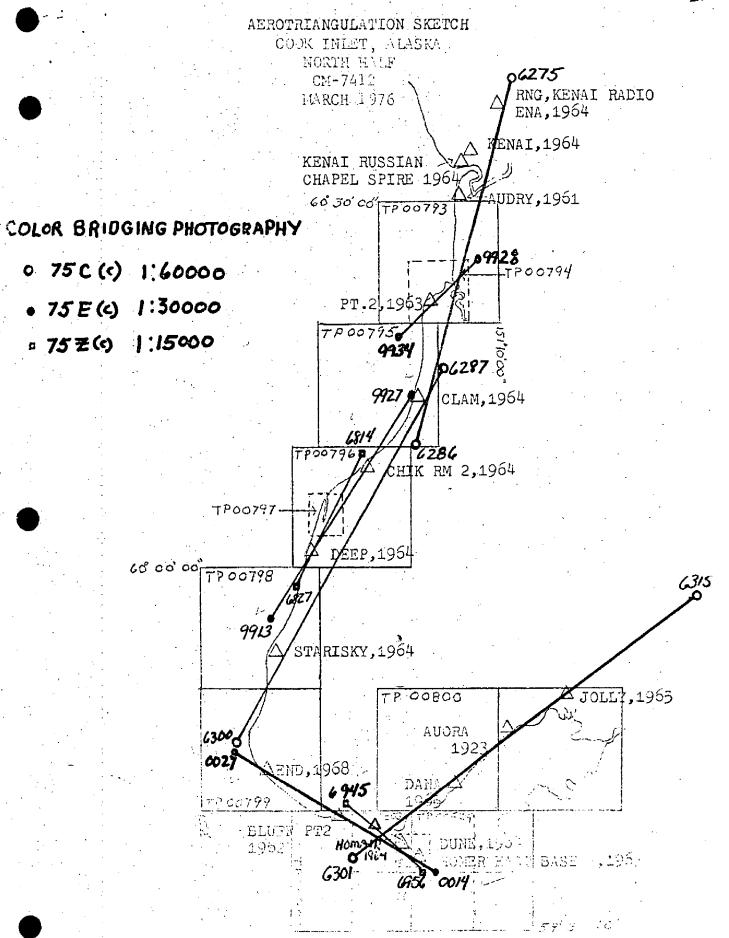
USGS quadrangles were used to provide vertical control for the adjustment.

Photography 25.

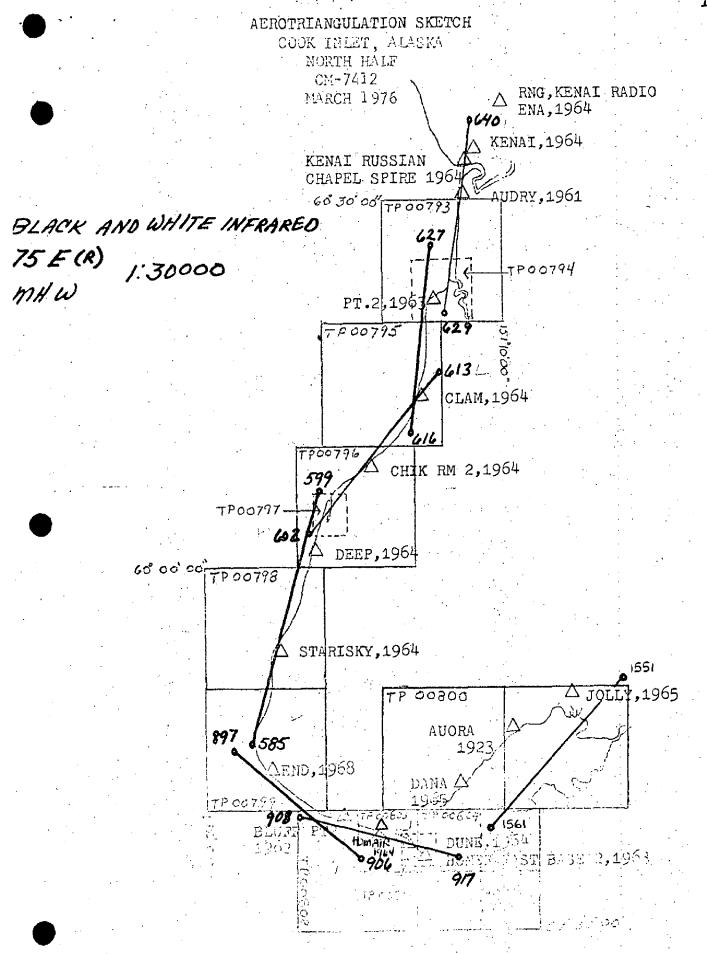
The coverage, overlap, and quality of the photography in general was adequate for the job.

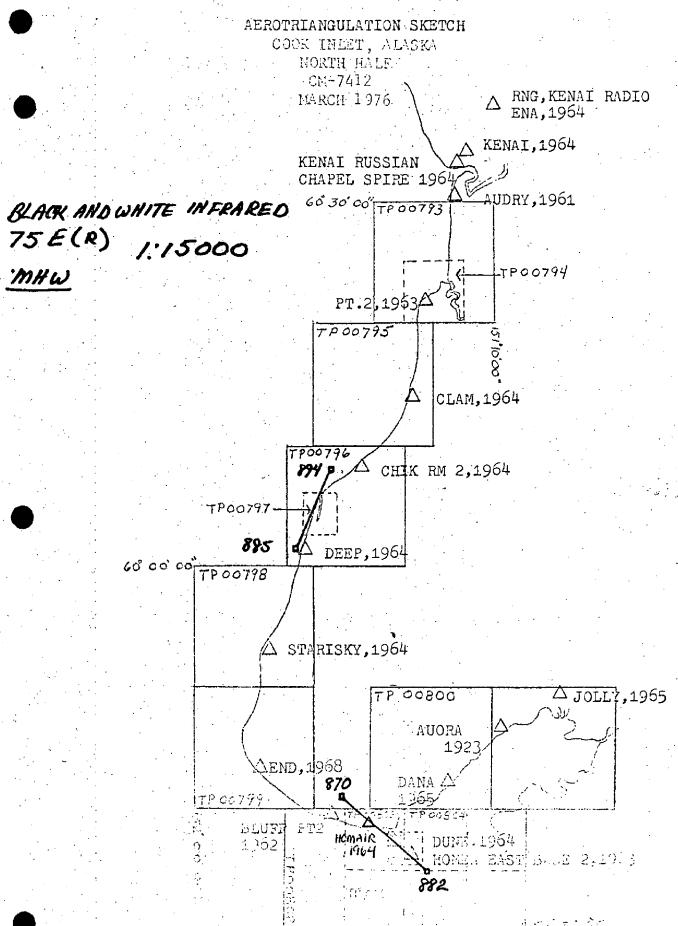
Approved and forwarded:

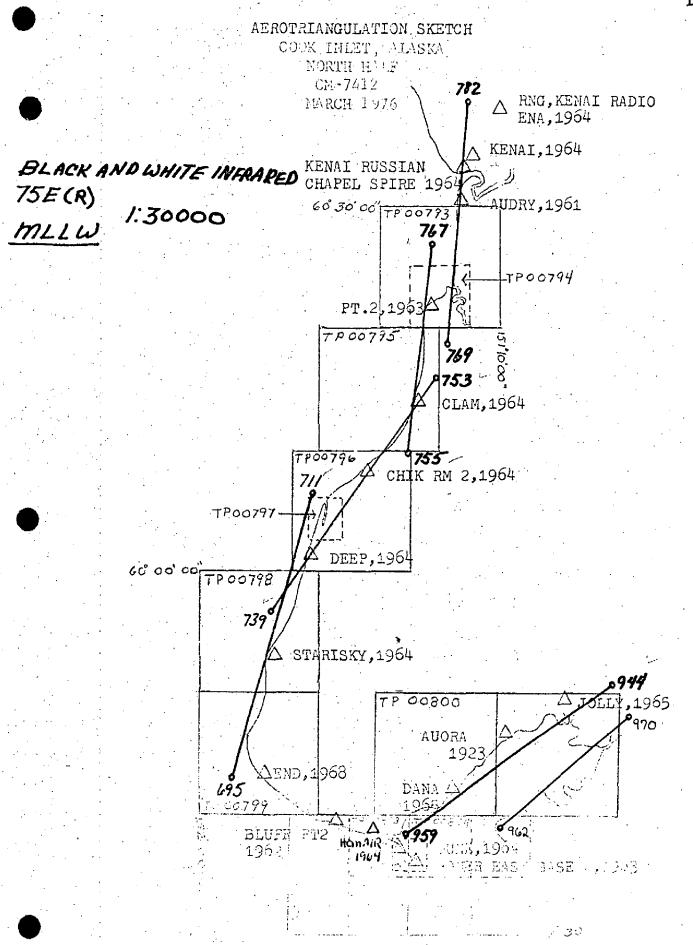
John D. Perrow, Jr. Chief, Aerotriangulation Section

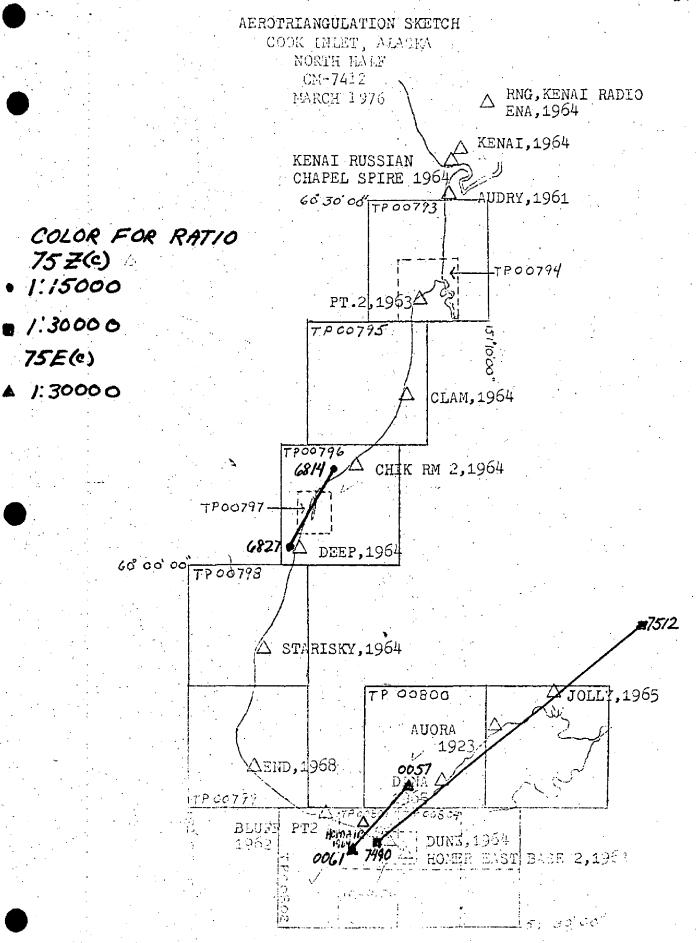


MHW (TP-00801)









LIST OF ACCRUACY OF CONTROL USED IN STRIP DUSTINENT.

	POINT CHOR WOULD	X error (ft)	Xerror (ft
STPIP#1	POINT VOR KENAT 276110 (RADIO, ENA 1964)) -4.34.2	+2.126
	277100 (KENAI, 1964)	+3.096	-1.403
· · · · · · · · · · · · · · · · · · ·	277100 (KENAI, 1964 KENAI RUSSIA 277113 (CHAPEL SPIRE, I	$\binom{N}{764} + 3.111$	- 966
A high in marriages and the second of	278101 (AUDRY, SUB) 694	203
a wasan a cara alaa aa aa	281101 (PT. 2, SUB) -4.894	+.309
a decres proper with the management of large	289101 (CLAM SUB)	+1.731	+. 156
STRIP#2	289101 (CLAM)	+ 1.149	+.188
a distribution of the second o	291101 (SUB P.T. 1964)	-2.593	t.365
**************************************	294,100 (DEEP,1964)	t2.09/	-1.854
	294101 (SUB PT)	+1.247	- 3.760
e di	297101 (STARISKY)	67.2	12.243
	30010/ (SUB PT)	t. 024	946
STRIP#3	954101 (2,1965,50B PT	丿 十、638	-1.192
	954110 (HOMER SPIT LT	7.302	-2.238
	954/10 (NOMER SPIT LT) 952/100 (Part 1956) 952/100 (Homer AERO)	1964) 316	73.060
ارد مینیوندین کا	7.47.770 N. L.F 1.956 J.	+2.374	+3.742
	948/10 (HOMER RADIO)	- 2. 141	- 0144
	945 110 (NALITED MAST) GES, 1964 21101 (RMY 1954	+ 2.508	
	2/10/ (BLUFF POINT 2	-1.282	-3.596
		· · ·	+8.669
	300802 (")	•	623
	_300.803 (")	+ 3.827	+1.389
. :			<i>•</i>

							16
			,	Xerro	r (f4)	Yer	ror (fi
PIP#4	1880	/ (#3)	- 4.	690		2.056
	1880	ə (#3		+2.	598	- 5	. 468
	948110	(RAHG	ERRADIO ERRIGER ER 1956	7/.	825	-5	.416
	94880	2 (#9))	+4.	084	<i>+</i>	. 238
	948803	3 (#9)		+2.	159	<u>۔۔۔</u> ف	841
	949110	HOMETE LT 1		-6.	364		260
	949803	(#9)		-1.6	58	·	o83
	949803	(#9)		+,	334		. 287
	17801	(#3)		3,	739	<u> </u>	2.154
	301 101	(HOM AIR SUB. P	T (·	465	<u>.</u>	354
C DITTED-	952/00	(DUHE, I		-20	808	#6.	.592
C MITTED-	954/0/	12,1965	SUB PT	⁻ 13.	966	+20	. 221
	954110	(HOMER	1964	-6.	957	<u> </u>	, 53 <i>5</i>
	364110	(VOR HOR RADIO M DANA I	ON-1964)	= (.)	881	t 9.	363.
	305/01	SUB	PT)	F. o.7	05	+2.	00.9
المراجعة ا معامل المراجعة المرا	_305/01 _307/01 _3/0/00	SUB	PT)	+1.8	97	+	632
	3/0/00	(JOLLY)	1965)	6	90	- , , 5	50
STRIP #5					,		
_	294100	(DEEP	1964)	- 1.45	6	+2.3	91
	294101			-1.2	3 /	+ 1. 39	72
	916801		'	ري	5	+ 57	ک
	916802	^		+ . 48	6.,	+ 2.99	/ p
	917801	<i>J</i> 1	ا ئىدىنى مىسىيىن رايىنى	+1.60	6	+ .55	/
	91880/ (···· ···· · · · · · · · · · · · · · ·	012	· }	-1.965	· · · · · · · · · · · · · · · · · · ·
	919801	(#2)		+3.77	2	-1.728	
	920801	, ,		+ . 565		-1.202	<u>.</u>

	Tegas 17
	Fox V
STRIP#\$ 921801 (#2)	X error (ft) Yerror (ft
(CON'T) 29/10/ (CHIK RM 2)	950 + 2. 448
922801 (#2)	-4.528 + .226 -3.924 -4.099
923801 (#2)	t.005 -4.693
924801 (#2)	+2.020555
92580/ (#2)	t. 229 +.128
28910/ (CLAM 1964)	061 316
926803 (#2)	+1.867 -2.156
926804 (#2)	+1.501 -2.488
STRIP#6	
928801 (#1)	404179
928802 (#1)	182 +. 528
930801 (#1)	71.362 - 043
93/80/(#/)	-1.325 -3.232
28/10/ (PT 2,1963) SUBPT)	-5.609 + .708
232801 (#1)	+5.165 +5.442
932802 (#/)	75.104 +1.864
933801 (#1)	-10.592 +3.693
933 802 (#/)	+1.112 + .351
# 7	
STRIP#7	
816801 (45)	451066
816802 (45)	+ . 986 + . 876
816803 (#5)	+ 1.673 +1.009
816804 (#5)	+1.681 +2.686
X115()1 (# 3)	+1. 307 +1.566

		18
	X error (ft)	Yerror (7)
SIP#7 818801 (#5)	+ . 563	+.060
(dox7) 819801 (#5)	+.919	+.616
8-20802 (#5)	-2.371	+1.092
82080@1 (#5)	+ ,520	+1.577
821801 (#5)	764	-1.191
821802 (#5)		
822801 (.#5)	-1.233	.695
822802 (45)	-2.874	100
823801 (#5)	542	-1.085
824801 (#5)	+1.164	042
294 100 (DEEP 1964)	276	151
294101 (SUB PT)	187	632
825801 (#5)	374	-1.034
€ 825802 (#5)	+.160	+1.685
818802 (#5)	883	646
		•
STRIP#9	* 18 4 1	
945110 (HOMER RTR VALIGHTED MASTOF) 5, 1164	t.015	-,024
948-110 (Homer RADIO)	+ , 289	-5.417
949110 (HOMETE AERO)	006	+.001
952100 (DUNE 1964)	+1.317	142
954101 (HOMER EAST BASE 2, 1965 SOB PT.	+.004	665
954110 (HOMER SPIT)	•	-1.041
		a antonia anti-
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Photogrammetric Plot Report
Cape Kasilof to Barren Islands
Job CM-7412
South Part
January 1977

Job index revised The 13, 1979 Number of Sheets compiled, revised March 7: 1984. CBB

Area Covered

The area covered by this report is the south central coastal area of Cook Inlet, Alaska, from Cape Kasiler to Barren Island. This area is covered by seven 1:20,000 scale sheets, eight 1:10,000 scale sheets, and seven 1:5,000 scale sheets.

Method

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

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

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

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

Adequacy of Control

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

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

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

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

Supplemental Data

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

Photography

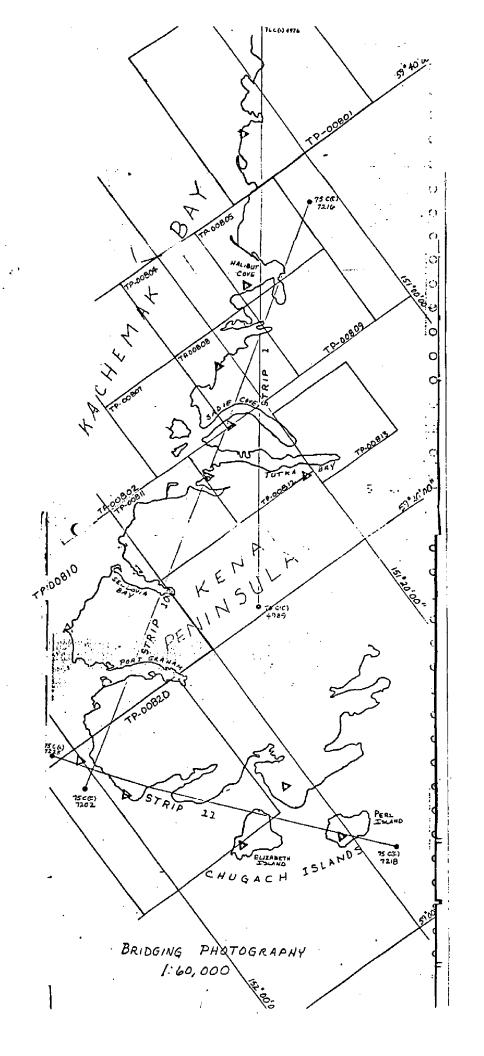
The coverage, overlap and quality of the photography was adequate for the job with the exception of the above mentioned "C" camera.

Submitted by:

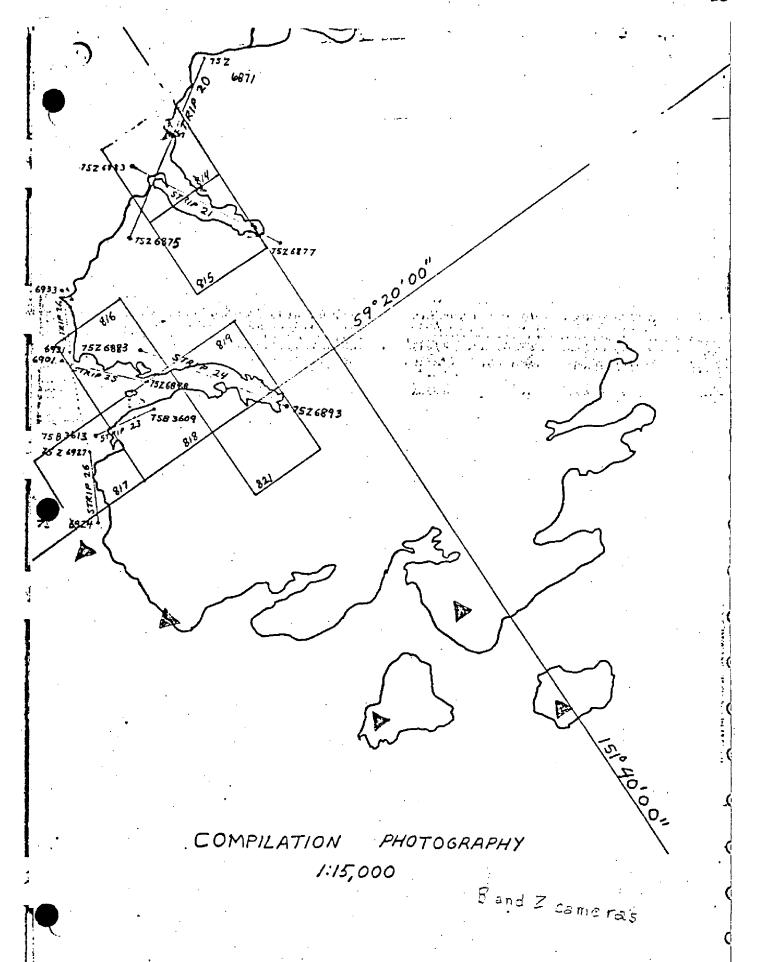
Brian Thornton

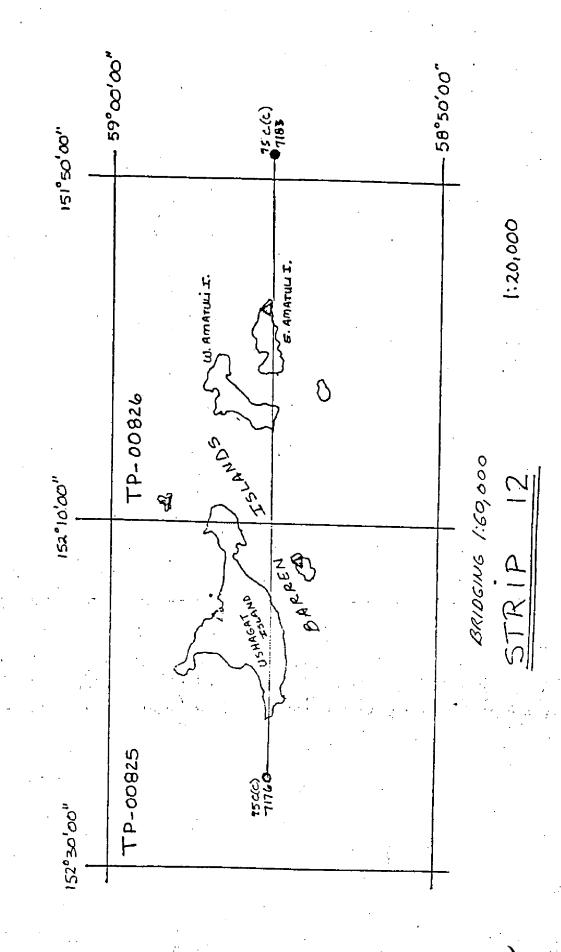
Approved and Forwarded:

Chief, Aerotriangulation Section



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	12100	845	1,438
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Strip #12		···	
	178101	3.435	2.681
• <u>• </u>	179100	1.047	-3.350
	180101	-4.475	1.956
	181100	→ CQ /	-1.299

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	y-error	y-error
Strip #11		
219101	1.518	.598
221100	-3.964	.647
223/00	3.269	-3.324
203/00		2,100
ttrip #4		
915801		. 006
911101	001	005
985805	001	<u>∞3</u>
Strip #6		
206100	.000	-010
964100	001	-011
207100	.006	007
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#up #7		
992112	-3.929	-1.672
941100	1. 088	<u>3.253</u>
964100	 570	913
169	-1.089	

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NOAA FORM 76-41				U.S NATIONAL OCEANIC AND A	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	CRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	VITY Cosetal Manning
TP-00801	CM-7412		N.A. 1927	A MC	
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	NOAA Form 75		=X	φ 59 46 37.313	
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SARAH, 1980	82 A Fleid Position		=ĥ	λ 151 01 13.890	
	NOAA Form 75		= χ	φ 59 43 39.342	
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COMPUTED BY A. C. Rauck, Jr.		DATE 6/8/76	COMPUTATION CHECKED BY F. Mauldin		DATE 6/12/76
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HAND PLOTTING BY		DATE 1/23/81	HAND PLOTTING CHECKED BY R Manldin		DATE 1/23/81
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COMPILATION REPORT

TP-00801

31 - DELINEATION

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

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 Reports, north half, dated March 1976 and south half, dated January 1977.

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 or landmarks within the limits of this map.

TP-00801

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 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-3), Alaska, scale 1:63,360, dated 1953

Seldovia (D-4), 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:

Cartographic Technician

March 17, 1978

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00801

Aurora Lagoon

Aurora Spit

Battle Creek

Bear Cove

Bear Island

Bradley River

Chugachik Island

Eastland Creek

Falls Creek

Fox Creek

Fox River

Kachemak Bay

Mallard Bay

Moose Creek

Sheep Creek

Swift Creek

. Approved by;

-Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-80

CM-7412

TP-00801

ALASKA

COOK INLET, EAST SIDE

CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

MAY 13 - JULY 29, 1980 (JD 134-181)

51 METHODS

Field edit operations for TP-00801 began on May 13, 1980 (JD 134) and ended on July 29, 1980 (JD 181). Field edit began after hydrographic survey operations had commenced on OPR-P114-RA-80. Hydrographic surveys H-9569 and H-9876 include all the shoreline of TP-00801.

Inspection of the shoreline was made during both low water and high water using small boats, motorcycle and foot travel. Landmarks 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 75ER 951,963\966, 968, and 1558-1559 and/or the Master Film Field Edit Ozalid. Annotations were made with the following ink colors: viölet - verification or changes in features; green - deletion of features; red - hydrographic features.

52 ADEQUACY OF COMPILATION

The compilation of TP-00801 was adequate and complete except for minor changes. The changes were moted on the photographs and/or the Master Film Field Edit Ozalid. All compilation questions have been answered. The mean high water line was verified or changed by visual inspection or measurement from triangulation stations.

53 MAP ACCURACY

The map accuracy of TP-00801 could not be determined because there were no stations compiled on NOAA Form 76-40 (see "Separates").

54 RECOMMENDATIONS

Matte ratio photographs were not available for field use. As a result 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, as 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 photographs it was considered as hydrographic information, and reported on the hydrographic survey.

All triangulation stations located within the limits of TP-00801 were visited. Four new traverse stations were established by the RAINIER using Third Order, Class I methods. Station descriptions and recovery notes are included in the "Separates."

A hydroelectric dam on the Bradley River with related powerhouse, runway, and boat harbor is being planned by the U.S. Army Corps of Engineers. The areas which will be affected have been delineated on the Master Film Field Edit Ozalid. Actual scheduled date of construction is not known as of this report but construction should begin in the near future. Information on this project was obtained by the field party through discussion with Mr. Wendell Moore, Army Corps of Engineers, Anchorage, Alaska.

All other pertinent information is included in the "Separates Following the Text."

Respectfully submitted,

Approved by,

Richard L. Hastings, SST

Richard L. Hastings

Wayne L. Mobley, Captain, NOAA Commanding Officer

John C. acon

REVIEW REPORT TP-00801 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-3), Alaska, scale 1:63,360, dated 1953 Seldovia (D-4), Alaska, scale 1:63,360, dated 1961.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary surveys H-9876 and H-9569 were 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.

A comparison was made with the 10th edition Chart 16645, 1:82,662 scale dated March 13, 1976 and the 14th edition Chart 16645, 1:82,662 scale dated July 30, 1983. A comparison between these charts indicates that rocks were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts April 1980. The intended purpose of showing the rocks on the 1980 Chart Maintenace Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the rocks existed. It was never intended for charting purposes because the photointerpretation of the rocks did not render positive identification. The field investigation of the rocks revealed them to be nonexistent by the field editor at the time the hydrography was performed, May through July, 1980.

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

TP-00801

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

Charles E. Blood / Byrd
Charles E. Blood/James L. Byrd, Jr.

Final Reviewer

Approved for forwarding:

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved:

Chief, Photogrammetry Branch

Chief, Photogrammetry Division

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 chail. 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-

DATE	CARTOGRAPHER	REMARKS
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