NOAA FORM 76-35 (6-80)

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

# DESCRIPTIVE REPORT

Man No	Edition No.			
Map No.	į į			
τ₽−00795	1			
Job No.	i			
CM-7412				
Map Classification				
FINAL MAP-FIELD ED	ITED			
Type of Survey				
SHORELINE				
LOCALIT	Y			
State	····			
ALASKA				
General Locality COOK INLET, EAST	CIDE			
CAPE KASILOF TO	BARREN ISLANDS			
Locality				
THE SISTERS				
<u></u>	<del></del>			
19 75 TO 19	78			
17.5 10 17.5				
<u></u>	<del></del>			
REGISTERED IN A	RCHIVES			
BASE .	<del></del>			
DATE				

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00795
TO THE SOUTH OF A TROOP PERIOR ADMIN.	ORIGINAL	MAPEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS 1/Final
PEOKIT IVE KETOKT - DATA KEGORD	REVISED	•
PHOTOGRAMMETRIC OFFICE	<del></del>	лов <b>мж</b> . <u>СМ−7412</u>
/	LAST PRECEED	ING MAP EDITION
Coastal Mapping Division, Norfolk, VA	TYPE OF SURVEY	JOB <b>PH-</b>
OFFICER-IN-CHARGE	ORIGINAL  RESURVEY	MAP CLASS
	RESORVET	19TO 19
Roy K. Matsushige	1	
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		May 6, 1975
		•
II. DATUMS	<u>,, , , , , , , , , , , , , , , , , , ,</u>	
punt	OTHER (Specify)	
1. HORIZONTAL: XX 1927 NORTH AMERICAN		
AM MEAN HIGH-WATER  ☐ MEAN LOW-WATER  2. VERTICAL:  [X] MEAN LOWER LOW-WATER  ☐ MEAN SEA LEVEL	OTHER (Specity)	
3. MAP PROJECTION		
WAT THOUSENING	STATE 4.	GRID(\$)
Transverse Mercator	Alaska	4
5. SCALE 1:20,000	STATE	ZÓNE
III. HISTORY OF OFFICE OPERATIONS	<del></del>	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	S. Solbeck	Mar 1976
METHODAnalytic (North Half)ANDMARKS AND AIDS BY	J. Perrow. Jr.	Mar 1976
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomata: CHECKED BY	S. Solbeck	Apr 1976
	J. Perrow, Jr. L. O. Neterer, Jr.	Apr 1976 Dec 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	A. C. Rauck, Jr.	Dec 1976
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:20,000 CHECKED BY	N.A	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	J. Roderick	Jan 1977
CHECKED BY	L. O. Neterer, Jr.	Jan 1977
METHOD: CONTOURS BY	N.A.	
CHECK ED BY	N.A.	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY	J. Roderick	Jan 1977
THECKED BY  5. OFFICE INSPECTION PRIOR TO FIELD EDIT  BY	L. O. Neterer, Jr. L. O. Neterer, Jr.	Jan 1977 Jan 1977
84	R. Kravitz	Jan 1979
6. APPLICATION OF FIELD EDIT DATA  CHECKED BY	L. O. Neterer, Jr.	Mar 1979
7. COMPILATION SECTION REVIEW BY	C. Blood	Apr 1984
8. FINAL REVIEW BY	C. Blood/J', Byrd	Sept 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	J. Byrd	Nov.1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Dempsey	mar 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	F DAUGHERTY	MAY 86'

NOAA FORM 76-36B (3-72)	-	TP-00795	NATIONAL OCEAN	IC AND ATMOSPHERIC	NT OF COMMERC ADMINISTRATIO L OCEAN SURVE
	COM	PILATION SOU	RCE\$		
1. COMPILATION PHOTOGRAPHY	r		···		
CAMERA(S)Wild RC 8 E	152.71 mm	TYPES OF PI	HOTOGRAPHY	TIME REF	EDENCE
Wild RC 10 C	88.47 mm	LEG	END		
TIDE STAGE REFERENCE		(C) COLOR		ZONE	1_
X PREDICTED TIDES	•	(P) PANCHRON	MATIC	Alaska	<b>XX</b> STANDAR
XXREFERENCE STATION RECOR		(1) INFRARED		MERIDIAN	DAYLIGH
XTIDE CONTROLLED PHOTOG	RAPHY		<del>,</del>	150th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE O	F TIDE
756(0)6000 6005	7 7 5 7075	00 27	1 60 000	7.6.51	
75C (C) 6282-6285	Jul.5,1975	08:27	1:60,000	7.6 ft. above	
75C (C) 6289-6290	Jul.5,1975	08:51	1:60,000	9.0 ft. above	
75E(I)0616-0622*	Jul.8,1975	15:18	1:30,000	18.5 ft. abov	
75E(I)0609-0610*	Jul.8,1975	15:03	1:30,000	18.5 ft. abo	
75E(I)0756-0762**	Jul.9,1975	10:59	1:30,000	1.0 ft. below	
75E(I)0749-0751**	Jul.9,1975	10:11	1:30,000	4.1 ft. above	e MLLW
				Mean tide ran	15' / £+
			ļ	at Séldovia	-
REMARKS. Tide gages wer	a observed at	Venai and Ce	ldowia for		
Bridge and/or compila				_	
<del>-</del>					ripe.
		15.17.0-	ic. above M		
TheaMean High Water a	EDINE.				
2. SOURCE OF MEAN HIGH-WAT	ER LINE:	•			
2. SOURCE OF MEAN HIGH-WAT		llv from the	above tide	.coordinated in	afrared
2. SOURCE OF MEAN HIGH-WAT		lly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		lly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		1ly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		1ly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		lly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		lly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		1ly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT		1ly from the	above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT	piled graphica		above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT *The MHWL was com photography.	piled graphica		above tide	coordinated in	nfrared
2. SOURCE OF MEAN HIGH-WAT *The MHWL was com photography.	piled graphica	OW-WATER LINE:		, , , , , , , , , , , , , , , , , , ,	
*The MHWL was comphotography.  . SOURCE OF MEXNICON WATE	piled graphica	OW-WATER LINE:		, , , , , , , , , , , , , , , , , , ,	

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED
5. FINAL JUNCTION	45				
<u>ተዋይ</u> 00793 1:2	0,000	EAST	SOUTH	W	/EST
TP-00 <b>7</b> 94 1:1	0.000	No Survey	TP-00796		No Survey

NOAA FORM 76-36 (3-72)	TP-00795 HISTORY OF FIELD	NATIONAL OCEA	U. S.	DEPARTMENT TMOSPHERIC A NATIONAL	DMINISTRA	ATION
I. 🖾 FIELD INSP	ECTION OPERATION (Premarking)   FIEL					
	OPERATION	<u> </u>	NAME		DATE	
. CHIEF OF FIEL	DBARTY					
		R. Melby			June 19	
1 HORIZONIA /	RECOVERED BY	L. Riggers			June 19	1/5
2. HORIZONTAL (	CONTROL ESTABLISHED BY  PRE-MARKED OR IDENTIFIED BY	None L. Riggers			June 19	75
	RECOVERED BY	N.A.			ounc 1.	
3. VERTICAL CON		N.A.				
	PRE-MARKED OR IDENTIFIED BY	N.A.				
	RECOVERED (Triangulation Stations) BY	None				
4. LANDMARKS A	ND LOCATED (Field Methods) BY	None				
AIDS TO NAVIG	ATION IDENTIFIED BY	None				
	TYPE OF INVESTIGATION					
5. GEOGRAPHIC						
INVESTIGATION	SPECIFIC NAMES ONLY			{		
	NO INVESTIGATION					
6. PHOTO INSPEC	TION CLARIFICATION OF DETAILS BY	None				
7. BOUNDARIES A		N.A.		<u> </u>	<del></del>	
II. SOURCE DATA	CONTROL IDENTIFIED	2. VERTICAL CON	TROL IDE	NTIFIED		
Panele		N.A.	THOE IDE			
		1				
PHOTO NUMBER	STATION NAME	PHOTO NUMBER		FATION DESIGN	ATION	
75Z(C)6781	CLAM, 1964					
	(sub pt. paneled)					
3. РНОТО МИМВЕ	RS (Clarification of details)					
None	ND AIDS TO NAVIGATION IDENTIFIED					
W ENNEMANTS A	AD AIDS TO MAYION TON IBENTIFIED					
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER		OBJECT NAM	4E	
75Z(C)6781	Parabolic Antenna					
	(CLAM, 1964)					
į						
5. GEOGRAPHIC N		6. BOUNDARY AND	) LIMITS:	REPORT	XMON	<u>E</u>
. SUPPLEMENTA	L MAPS AND PLANS					
None						
8. OTHER FIELD	RECORDS (Sketch books, etc. DO NOT list data submit	ted to the Geodesy Di	vision)			
	150					
= :	Form 152					
2 - I	Form 277 (Tides Record Book)					

NOAA FORM 76-36C (3-72)	TP-00799	5	NIC AND ATMOSPHE	MENT OF COMMERC RIC ADMINISTRATIO NAL OCEAN SURVE
I. FIELD INSPECTION OPE	RATION XX FIEL	D EDIT OPERATION		
OP	ERATION	N	(AME	DATE
1. CHIEF OF FIELD PARTY				
		J. Randall S. Miller		Aug. 1978
2. HORIZONTAL CONTROL	RECOVERED BY	None		Jul. 1978
Z. HORIZONTAL CONTROL	ESTABLISHED BY	None		
<del></del>	RECOVERED BY	None		
3. VERTICAL CONTROL	ESTABLISHED BY	None		
-	PRE-MARKED OR IDENTIFIED BY	None	<del></del>	
	ECOVERED (Triangulation Stations) BY	S. Miller		Jul. 1978
4. LANDMARKS AND	LOCATED (Field Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			
	XXNO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Hastings		Aug. 1978
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
II. SOURCE DATA		_		
1. HORIZONTAL CONTROL IDE	NTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
None		None		
PHOTO NUMBER	STATION. NAME	PHOTO NUMBER	\$TATION D	ESIGNATION
3. PHOTO NUMBERS (Clarificati	on of details)			
75E(I)0756 thru 0		Matte)		
4. LANDMARKS AND AIDS TO N None	AVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AND	D LIMITS: REP	ORT XX NONE
7. SUPPLEMENTAL MAPS AND None	PLANS			
Field Edit Report Master Field Edit	Print Ches 1 Form 76-40		vision)	

NOAA FORM 76-36( (3-72)		TP-00795 HISTORY OF FIELD		U. S. D		T OF COMME IDMINISTRA OCEAN SUF	TION
I. FIELD INSP	ECTION O	PERATION EX FIELD	EDIT OPERATION		,		
		OPERATION	i: N	AME		DATE	
I. CHIEF OF FIEL	D PARTY		W. Mobley			Jun-Jul	79
		RECOVERED BY	· None			_	
2. HORIZONTAL C	ONTROL	ESTABLISHED BY	None				
		PRE-MARKED OR IDENTIFIED BY	None				
	,	RECOVERED BY	None				
3. VERTICAL CON	TROL	ESTABLISHED BY	None				
		PRE-MARKED OR IDENTIFIED BY	None	• •			
		RECOVERED (Triangulation Stations) BY	None				
4. LANDMARKS AT AIDS TO NAVIG		LOCATED (Field Methods) BY	None			· · · · · · · · · · · · · · · · · · ·	
	``` <u>`</u>	IDENTIFIED BY	None				
		TYPE OF INVESTIGATION			٠, ,		
5. GEOGRAPHIC N		COMPLETE					
1117 231 102 7 101		SPECIFIC NAMES ONLY					
		NO INVESTIGATION	<u></u>		<del></del>		
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	J. Talbott			Jun-Jul	_79.
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	N.A.	*			
II. SOURCE DATA  1. HORIZONTAL C		IDENTIFIED	2. VERTICAL CON	TROL IDENT	TELED		
	CHINOL		<u> </u>	THOE IDEN	,20		
None			None -	·· · · · · · · · · · · · · · · · · · ·	,		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	ST.A	TION DESIG	NATION	
			-				
3. PHOTO NUMBE	R5 (Clarifi	cation of details)	<del></del>		<u> </u>		
75E(I)074							
4. LANDMARKS A	ND AIDS T	O NAVIGATION IDENTIFIED		<u> </u>	•		
None				•			
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER		OBJECT NA	ME	
<u>.</u>							
5. GEOGRAPHIC	JAMES.	REPORT TENONE	6. BOUNDARY AND	T I IMITS:	REPORT	XX NON	
7. SUPPLEMENTA None			La. BOOMONNI ARE		KEFON.		
Field Edi Master Fi	it Repo ieļd Ed		ted to the Geodesy Di	vision)		•	

NOAA FORM 76-36D (3-72)

TP-00**7**95

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

		-	RD OF SURVE	Y USE		
I. MANUSCR	IPT COPIES					
	C	OMPILATION STAGE	ES		DATE MANUSCR	PT FORWARDED
اره	ATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPOR
Compilat	tion complete,			•		1
	field edit.	Jan. 1977	Class III	Manuscript	Apr.14, 1977	Mar.30.197
					1	114213725
	dit applied.	1			1	_
Compilat	tion complete.	Mar. 1979	Class I Ma	nuscript	Apr.9,1979	· -7;
Final Re	view	Sept. 1985	Final Map	,	Mar 1986 N. 1988	mar 1916
		, sept. 1305	Tanat nap			
II. LANDMA	RKS AND AIDS TO NAVIG	ATION				
] REPOI	RTS TO MARINE CHART D	IVISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		Rs	EMARKS	
1		mar 1986	Landma	rks for ch	narts	
				•		
				<u> </u>		
	· · · · · · · · · · · · · · · · · · ·					<del></del> -
	EPORT TO MARINE CHAR					79
	EPORT TO AERONAUTICA AL RECORDS CENTER DA		I, AERONAUTICAL	DATA SECTION.	DATE FORWARDED:	
1. 🖂 8 2. 🖂 C 3. 🔜 5	RIDGING PHOTOGRAPHS; ONTROL STATION IDENT OURCE DATA (except for C CCOUNT FOR EXCEPTIO	DUPLICATE IFICATION CARDS; Geographic Names Re NS:	eport) AS LISTED I			
IV. SURVEY	EDITIONS (This section .	shall be completed e	ach time a new map	edition is register	ed)	· · ·
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
SECOND	TP -	(2) PH ·		LJ 5	REVISED RES	URVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	ELD EDIT	□n. □n	MAPCLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R	<u> </u>	TYPE OF SURVEY	FINAL
THIRD	TP -	_ (3) PH		□R	EVISED RES	URVEY
EDITION	DATE OF PHOTOGRAP		ELD EDIT		MAP CLASS	•
	<u> </u>				i. 🗀 ıv. 🗀 v.	FINAL
	SURVEY NUMBER	109 ИПИВЕ	R		TYPE OF SURVEY	
FOURTH	TP			Ļ.] R	EVISED RESI	ĴRVĖY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT		MAP CLASS	

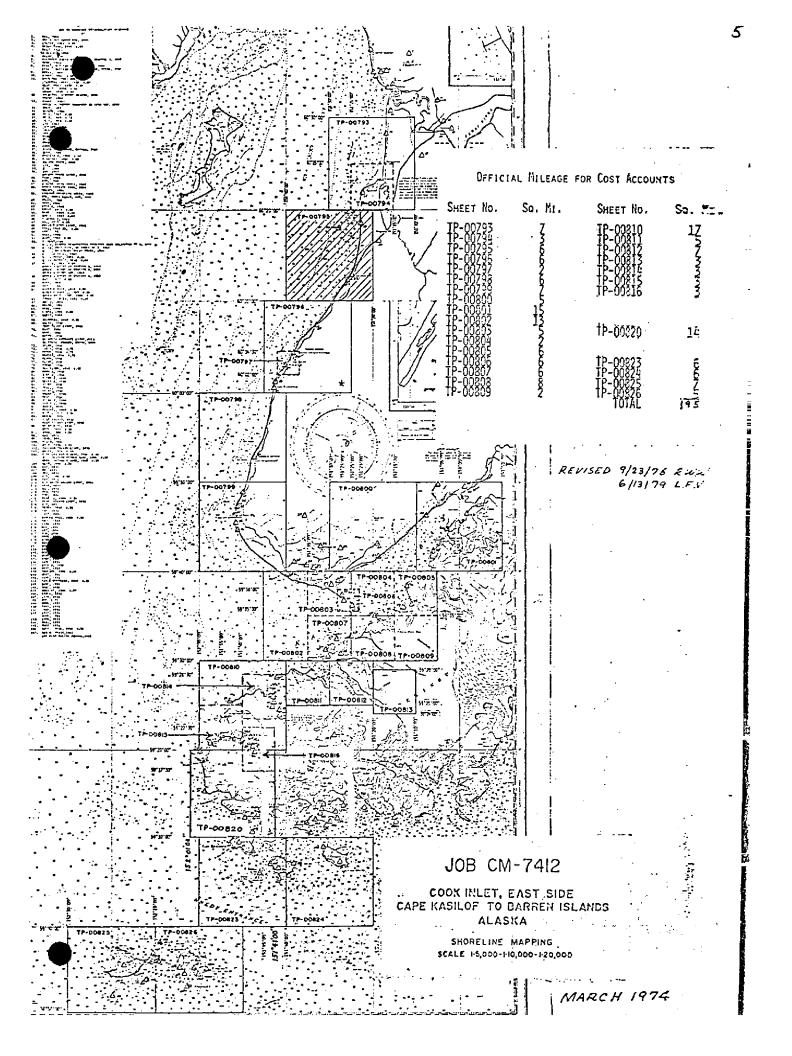
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## SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

#### TP-00795

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

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map portrays the west coast of Cook Inlet area, south of Kenai from latitude 60°10' north to latitude 60°20'.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed July 1975.

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

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

Compilation, based upon photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in January 1977. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photography.

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

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

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

#### FIELD INSPECTION

#### TP-00795

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

8

# Photogrammetric Plot Report Cook Inlet Alaska North Half F-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 x asilof to the northern shoreline of Kachemak Bay. This area is covered by eight 1:20,000 scale sheets (TP-00793,  $795^{796}_{,4}798^{79}_{,4}800^{\circ}_{,1}802$ ); 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 752(c)7490-7511 (flown parallel to strip 750(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(0)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

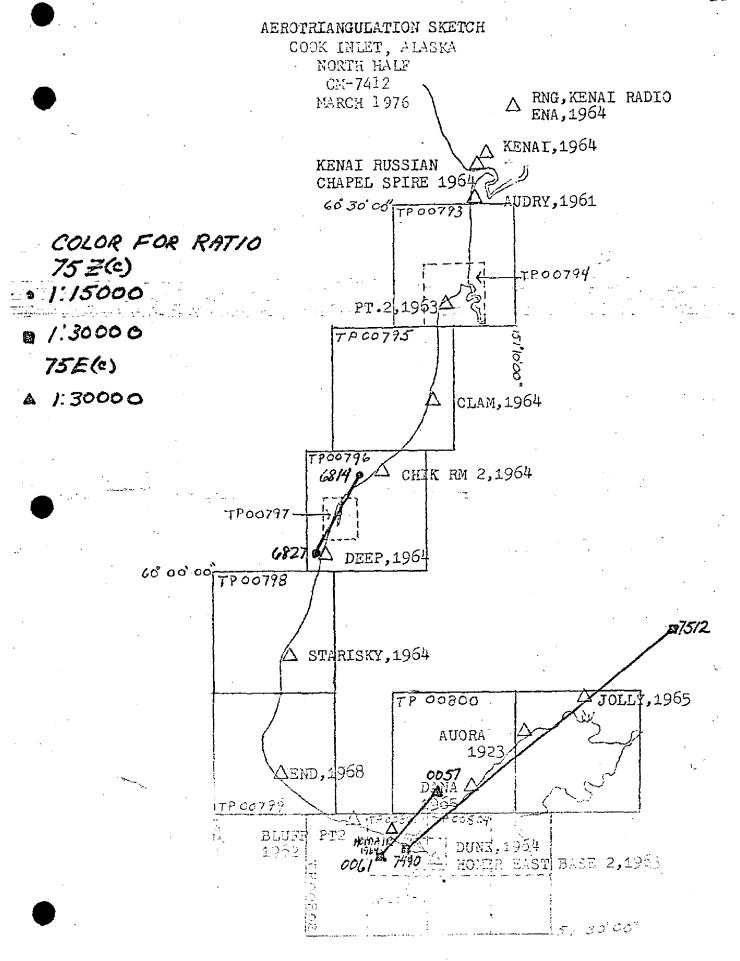
The coverage, overlap, and quality of the photography in general was adequate for the job.

Approyed and forwarded:

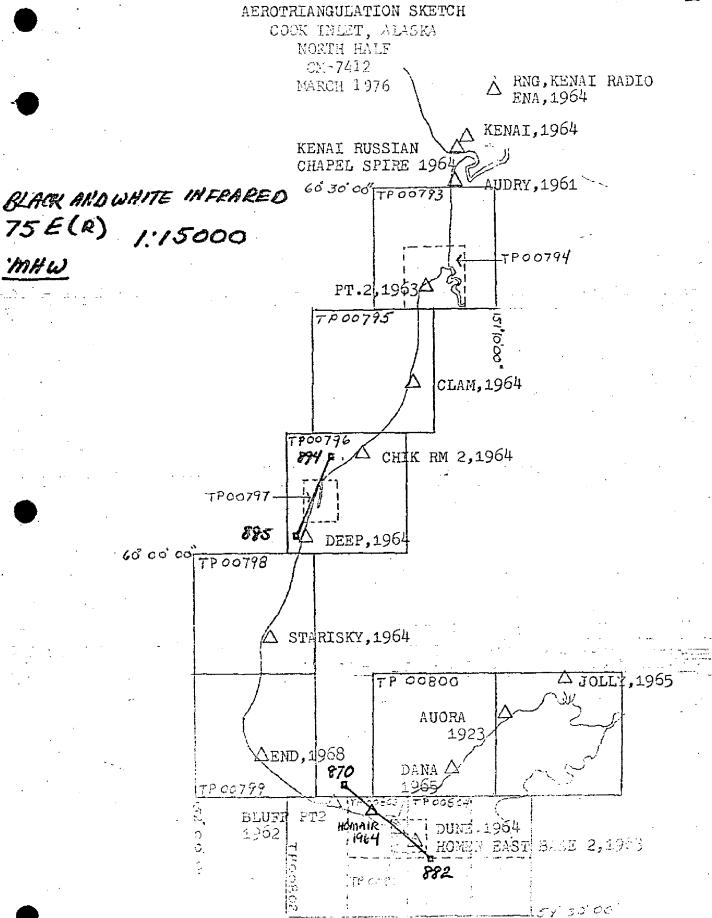
John D. Perrow, Jr.

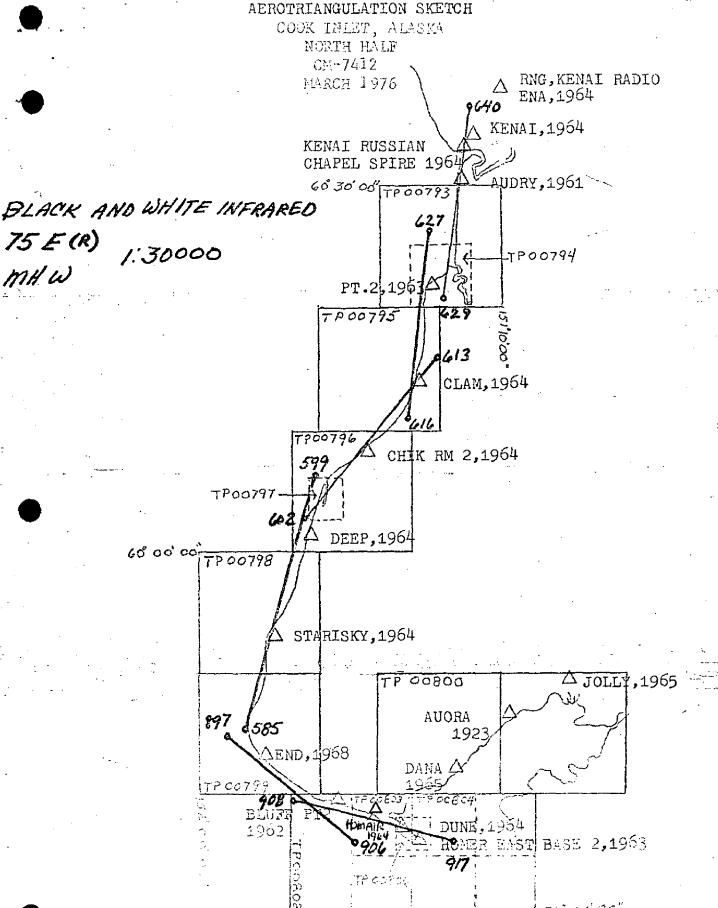
Chief, Aerotriangulation Section -

#### AEROTRIANGULATION SKETCH COOK INLET, ALASKA NORTH HALF 06275 CM-7412 RNG, KENAI RADIO MARCH 1976 ENA,1964 ENAI,1964 KENAI RUSSIAN CHAPEL SPIRE 1964 60 30 CO TP 00793 JDRY,1961 COLOR BRIDGING PHOTOGRAPHY 0 75 C (c) 1:60000 TP00794 PT.2,1963 1:30000 • 75 E(4) TP 00795 · 75至(9) 1:15000 9934 p6287 8 ø 9927 9 CLAM, 1964 TP00796#1 6284 IK RM 2,1964 TP00797 60 00 00 TP 00798 6315 9913 STARISKY,1964 TP 00800 JOLLY,1965 **AUORA** 4300d 192 ) 1968 END 6945 -> 007**9**9 BLUFR PT2 DUNE, 1964 1962 HOMBR EAST BASE 2,1953 59 3 - 00"



### AEROTRIANGULATION SKETCH COUR INLET, ALASKA MORTH HALF CM-7412 △ RNG, KENAI RADIO MARCH 1976 ENA,1964 KENAI, 1964 KENAI RUSSIAN BLACK AND WHITE INFRARED CHAPEL SPIRE 1964 75E(R) 60 30 00 TP 00793 AUDRY,1961 1:30000 767 MLLW TP00794 TP00795 753 CLAM, 1964 TP00796 CHIK RM 2,1964 TP00797 DEEP,196 TP 00798 739° STARISKY, 1964 TP 00800 **AUORA** 1923 AEND, 1968 DANA a P 00799 BLUFF FT2 19621 OMER BAST BASE 2,1903





# LIST OF ACCRUACY OF CONTROL USED IN STRIP

STRIP#1 276/10 (RADID, ENA 1964) -4.342 +2.126  277/00 (KENAI, 1964) +3.096 -1.403  277/13 (RENAI RUSSIAN 277/13 (RENAI RUSSIAN) 278/01 (AUDRY, SUB) 278/01 (PT. 1961)694203  28/10/1 (PT. 1963) -4.894 +.309  289/01 (RADID SUB) 289/01 (RADID SUB) 289/01 (RADID SUB) 289/01 (CLAM) +1.731 +.156			w can war a second	
277/00 (KENA), 7644		POINT	X error (ft)	Xerror (ft)
277/00 (KENA), 7644	STRIP#1	276110 (RADID, ENA 1964	) -4.342	+2.126
278/01 (AUDRY, SOB) 694 203  281/01 (PT, 2, SUB) - 4, 894	·			-1.403
278/01 (AUDRY, SOB) 694 203  281/01 (PT, 2, SUB) - 4, 894	• •••	277113 CHAPEL SPIRE,	AN 1964) +3,111	966
DTRIP#2 289101 (CLAM) + 1.149 + .188  299101 (SUB RT 1964) - 2.593 + .365  299100 (DEEP 1964) + 2.091 - 1.859  299101 (SUB PT ) + 1.247 - 3.760  297101 (RYSUB PT )672 + 2.243  300101 (SUB PT ) + .039996  DTRIP#3 - 959101 (R1965, SUB PT ) + .038 - 1.192  959110 (NUMBER ENST BISE) + .038 - 1.192  959110 (NUMBER SPIT LT) - 1.302 - 2.238  952100 (RATE FORT OF DONE) + .316 + 3.060  949110 (TIPS ARE) + 2.379 + 3.742  948110 (ROMER ARE) + 2.379 + 3.742  948110 (ROMER POST) + 2.508039  21/01 (RUST RATE) - 1.282 - 3.596  300801 (STRIP#2) - 1.547 + 8.669  300802 (") - 2.721623		278101 (AUDRY, SU	B)694	203
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29110   (SUB RT 1964) - 2,593	· · ·			
### ##################################	STRIP#2	289101 ( CLAM )		+.188
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949/10 (HOMER ABRO)  1706 + 2.374 + 3.742  948/10 (HOMER RADIO)  948/10 (RANGE GENTER)  945/10 (HOMER PTR HOMER PTR HOMER PTR 1956 + 2.508039  21/01 (RMY 1956 - 1.282 - 3.596  300802 (") - 2.721 + 8.669  300802 (") - 2.721623		954110 (HOMER SPITE	7) -1.302	-2,238
948/10 (17 1956) +2.374 +3.742  948/10 (HOMER RADIO) -2.141144  945/10 (HOMER RTR 1956) +2.508039  21/01 (RMY 1956) -1.282 -3.596  300802 (") -2.721 +8.669  300802 (") -2.721623		952100 (PA) 1754	1964) 316	+3.060
948/10 (RANGE GENTES) - 2. 141144  945/10 (VALITED MAST) + 2.508039  2/101 (RMY 1954 - 1.282 - 3.596  300801 (STRIP #2) - 1.547 + 8.469  300802 (") - 2.721623		949110 (17 1956)	) +2.374	+3.742
$\frac{2/101 \left(\frac{81.077}{RMY}, \frac{1954}{1954}, \frac{-1.282}{-1.282}, \frac{-3.596}{+8.669}\right)}{300802 \left(\frac{87R1}{R}, \frac{42}{R}\right)} -1.547 +8.669$	A The same of the	948/10 (RANGE GENTER )	- 2. 141	- 0144
$\frac{2/101 \left(\frac{81.077}{RMY}, \frac{1954}{1954}, \frac{-1.282}{-1.282}, \frac{-3.596}{+8.669}\right)}{300802 \left(\frac{87R1}{R}, \frac{42}{R}\right)} -1.547 +8.669$	·	945 110 (HOMER PTR UNLITED MAST)	+ 2.508	039
300801 (STRIP#2) -1.547 +8.669 300802 (") -2.721623		I BLUFF POINT I	-1.282	-3.596
● 300802 (") -2.721623			-1.547	
	-		-2.721	623
•		•	+ 3.827	+1.389

Nerror (A)   Nerror (A)   Nerror (A)     Nerror (A)   1880   (#3)		•	-
1880 2 (#3)			Yerror (ft)
948110 (ROMER CANDED) 71.825 -5.416 948802 (#9)	PRIP#4 18801 (#3	- 4.690	-2.056
94880 2 (#9)	////// G= \ \ \	. ~	-2.468
94880 2 (#9)	948110 (RAHG TOWE	E CENTER 7/. 825	-5.416
948803 (#9)			± . 23&
949/10 (min rec) - 6.364260  949802 (#9) -1.658663  949803 (#9) +.336287  17801 (#3) -3.734 +2.154  361/0/ (min rec ensibers)465 +.356  952/00 (DUHE 1944) -2.808 +6.572  -954/10 (min rec ensibers) -13.966 +20.221  401/0 (min rec ensibers) -13.966 +20.221  954/10 (min rec ensibers) -1.881 +9.363  364/10 (ension mon. sety) -1.881 +9.363  305/0/ (sub et) +.705 +2.009  307/0/ (sub et) +.705 +2.009  307/0/ (sub et) -1.897 +.632  3/0/00 (JOLLY 1965)690550  \$\frac{3}{16.802} (#2) +.486 +2.996  917801 (#2)012 -1.965  91980/ (#2)012 -1.965  91980/ (#2)012 -1.728	948803 (#9)	+2.159	
949802 (#9) -1.658063 949803 (#9) +.336287 1780/ (#3) -3.734		AGRO	
949.803 (#9) +. 336 287  1780   (#3) -3.734	7 u - \		
1780	/ / - <		,
301 101 (**sub pt		. •	
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$\frac{\partial 94101}{(806 \text{ Pt})}$ $\frac{-1.231}{-1.231}$ $\frac{+1.392}{+1.575}$ $\frac{916802}{(42)}$ $\frac{+2.996}{+2.996}$ $\frac{917801}{(42)}$ $\frac{+1.606}{+.551}$ $\frac{91880}{(42)}$ $\frac{012}{-1.725}$ $\frac{919801}{(42)}$ $\frac{+3.772}{-1.725}$	STRIP #5		
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919801 (#2) +3.772 −1.728			~ *
lacksquare			
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	X ermr (ft)	Yerror (Ft)
TRIP#\$ 921801 (#2)	950	+2.448
(CON'T) 29/10/ (CHIK EM 2)	-4.528	+ , 226
922801 (#2)	-3, 924	-4.099
923801 (#2)	+ .005	-4.693
924801 (#2)	+2.020	585
925801 (#2)	+.229	+.128
28910/ (CLAM 1964)	061	= . 316
926803 (#2)	+1.867	-2,156
926804 (#2)	+1.501	-2.488
STRIP#6		·
928801 (#1)	404	179
928802 (#1)	18-2	t. 528
930801 (#1)	+1.362	043
93/80/(#/)	-1.325	- 3. <u>9</u> 32
28/10/ (PT 2,1963) SUB PT)	-5.609	+ . 708_
232801 (#1)	+5.165	+5.442
932802 (#/ )	75.104	+1.864
933801 (#1)	-10.592	+3.693
933 802 (#/)	+1.112	+ ,35/
STRIP#7		
\$16801 (#5)	451	066
816802 (45)	+ .986	+.876
816803 (#5)	+ 1.673	t1.009
816804 (#5)	+1.0681	t 2.686
817801 (#5)	+1.307	+1.566

	Ý 22-5 (C)	Yerror (A)
Seip#7 818801 (45)	_	+.060
(CONT) 819801 (#5)		+.616
820802 (#5)	2,371	+1.092
8208001 (±5)	+ .520	+1.577
Pargar (#5)	764	-1.191
821802 (#5)		
822801 (#5)	-1.233	.695
822802 (#5)	-2.874	100
	<del>542</del>	-1.085
	+1.164	042
	276	151
	18-7	7.632
82580/ (#5)	374	-1.034
825802 (45)	+.160	+1.685
818802 (#5)	883	646
2 40		· · · · · · · · · · · · · · · · · · ·
STRIP#9		
195110 (DILIGHTED MASTOF)	<u>+</u> ,015	-,024
948/10 (RANGE CENTER) TOWER 1954 (HOMETE AFEO)	+.289	-5.417
949110 (LT 1956)	006	4.001
952100 (DUNE 1964)	+1.317	142
95410/ (HOMER EAST BASE) 95410/ (2,1965 SUB PT)	+.004	665
954110 (HOMER SPIT)	-1.210	-1.041

NOAA FORM 76-41				U.S.	U.S. DEPARTMENT OF COMMERCE
(6-75)		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		IMOSPHERIC ADMINISTRATION
MAP NO.	OB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY COASTAL	"Coastal Mapping
TP-00795	CM-7412		N.A. 1927	Unit, AMC, No	
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		POINT			
	List of Con-	2891002	χ=	φ 60 12 53.11018	
CLAM, 1964	to Soldotna	AL	<i>η</i> =	λ 151 24 43.97357	
	Onad 60151		χ=	φ 60 18 03.6094	
SIS, 1963		000019	=ħ	λ 151 27 16.8450	
	Onad 60151		a X	φ 60 12 20.4607	
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COMPUTED BY A. Rauck		8/7F/76	COMPUTATION CHECKED BY F. Mauldin		DATE 6/16/76
LISTED BY A. RAUCK		877/76	LISTING CHECKED BY		DATE 6/16/76
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	

#### COMPILATION REPORT

#### TP-00795

#### 31 - DELINEATION

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

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

#### 32 - CONTROL

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

#### 33 - SUPPLEMENTAL DATA

None.

#### 34 - CONTOURS AND DRAINAGE

Contours were not applicable to this project.

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

#### 35 - SHORELINE AND ALONGSHORE DETAILS

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

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

#### 36 - OFFSHORE DETAILS

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

#### 37 - LANDMARKS AND AIDS

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

#### 38 - CONTROL FOR FUTURE SURVEYS

None.

#### 39 - JUNCTIONS

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

#### 40 - HORIZONTAL AND VERTICAL ACCURACY

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

#### 46 - COMPARISON WITH EXISTING MAPS

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

Kenai (A-4), Alaska, scale 1:63,360, dated 1952 Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

#### 47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the National Ocean Survey chart:

No. 16640, scale 1:200,000, dated May 25, 1974 No. 16660, scale 1:194,154, dated October 18, 1975.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

#### ITEMS TO BE CARRIED FORWARD

None.

Submitted, by:

Joanne D. Roderick

/Cartographer

January 3, 1977

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

#### ADDENDUM TO THE COMPILATION REPORT

TP-00795

#### FIELD EDIT

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

March 22, 1984

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

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

TP ≥ 00795

Clam Gulch

Cook Inlet

Corea Creek

The Sisters

Approved by;

Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-78 CM-7412

TP-00795

ALASKA
COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

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

#### 51 METHODS

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

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

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

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

#### 52 ADEQUACY OF COMPILATION

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

#### 53 MAP ACCURACY

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

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

#### 54 RECOMMENDATIONS

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

#### 56 MISCELLANEOUS

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

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

Respectfully submitted,

Richard Lee Hastings

Richard Lee Hastings, ST

Approved by,

James P. Randall Captain NOAA

#### REVIEW REPORT TP-00795 SHORELINE

#### 61 - GENERAL STATEMENT

See Summary included with this Descriptive Report.

#### 62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

#### 63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with the following U.S.G.S. quadrangle: Kenai (A-4), Alaska, scale 1:63,360, dated 1952 Kenai (B-4), Alaska, scale 1:63,360, dated 1951.

#### 64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

#### 65 - COMPARISON WITH NAUTICAL CHARTS

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

The above listed charts compared well with this manuscript.

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

#### 66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00795

Submitted by, Charles E. Blood / Jones by S. L.

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

Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch,

Rockville

HYDROGRAPHIC PARTY
CACODETIC PARTY
PHOTO FIELD PARTY
SECOMPLATION ACTIVITY
FINAL REVIEWER
OUALITY CONTROL & REVIEW GRP. (See reverse for responsible personnel) AFFECTED 16660 16640 ORIGINATING ACTIVITY Aug. 1, 1978 F-V-Vis-5METHOD AND DATE OF LOCATION (See instructions on reverse side) FIELD Jan. 1979 U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION UNIT July 5, 1975 75c(c)6289 OFFICE IS. Cape Kasilof to Barren Cook Inlet, East Side been inspected from seaward to determine their value as landmarks. D.P. Meters 43.9735 \* LONGITUDE 24 151 0 POSITION N.A. 1927 // D.M. Meters 53.1101 LATITUDE 12 DATUM 9 ٥ DESCRIPTION Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses) Alaska SURVEY NUMBER TP-00795 ht. = 300 (340) REPORTING UNIT IF 1814 Perry, Ship or Office) Coastal Mapping Unit, AMC, Norfolk, VA The following objects HAVE XX HAVE NOT OPR PROJECT NO. CM-7412 (Clam, 1964) Replaces C&GS Form 567. KX TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 (8-74) PARABOLIC CHARTING NAME ANTENNA P114



A. Field positions* required for and date of fexample: F-2-6-L 8-12-75  *FIELD POSITIONS are determinations based entirely upon a	DETERMINED plicable dat p vis	FFICE IDENTIFIED AND INTER the number and ay, and year) of the dentify and locate 10 XAMPLE: 75E(C)6042		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FUSH IONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
Intersection 7 - Planetable Intersection 8 - Sextant Resection 8 - Sextant ield positions* require entry of method of ocation and date of field work.  XAMPLE: F-2-6-L 8-12-75 DSITIONS are determined by field obserbased entirely upon ground survey methods.	WED OR VERIFIED data by symbols as follows: - Photogrammetric Vis - Visually 5 - Field identified	DLOCATED OBJECTS date (including month, photograph used to the bject.	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	C. Blood	S. Miller L. Neterer	R. Hastings	NAME	RESPONSIBLE PERSONNEL
III. POSITION VERIFIED VISUALLY OF Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75  **PHOTOGRAMMETRIC FIELD POSITIONS entirely, or in part, upon contiby photogrammetric methods.	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75		AETHOD AND DATE OF LOCATION'	i				PERSONNEL
ERIFIED VISUALLY ON PHOTOGRAPH is.' and date. V-Vis. 8-12-75 IC FIELD POSITIONS are dependent in part, upon control established etric methods.	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery. riang. Rec.	<pre>mmetric field positions** require   method of location or verification,   field work and number of the photo-   ed to locate or identify the object.     P-8-V     8-12-75     74L(C)2982</pre>		EXPREVIEWER  QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE	XXPHOTO FIELD PARTY	ORIGINATOR	

NOAA FORM 75-40 (8-74)

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND Existing stock should be destroyed upon receipt of revision.

☆ U.S.GPO:1975-0-665-080/1155

#### 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 chamble.

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 Re-

DATE	CARTOGRAPHER	REMARKS
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		Drawing No.
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