NOAA FORM 76-35 (6-80)

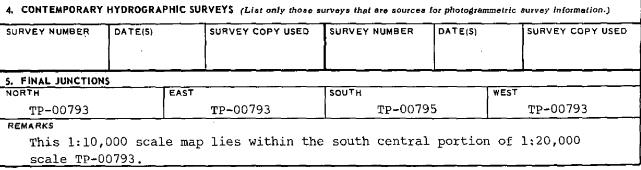
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

Map No.	Edition No.
TP-00794	1
Job No.	
CM-7412	
Map Classification	
FINAL MAP - FIELD EDI	TED
Type of Survey	
SHORELINE	
LOCALIT	Υ
State	
ALASKA	
General Locality COOK INLET, EAS CAPE KASILOF TO	ST SIDE D BARREN ISLANDS
Locality	
KASILOF RIVER	
19 75 TO 1	9 78
REGISTERED IN A	RCHIVES
DATE	

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERC (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMI	E TYPE OF SURVEY	SURVEY	тр. 00794
	ORIGINAL	MAPEDITI	on no. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLAS	s Final
	REVISED	JOB X	жк_СМ-7412
PHOTOGRAMMETRIC OFFICE	LAST PRECEE	ING MAP EDI	TION
Googtal Manning Division Namfally VA	TYPE OF SURVEY		PH
Coastal Mapping Division, Norfolk, VA	ORIGINAL ORIGINAL	MAP CLAS	S
OFFICER-IN-CHARGE	RESURVEY	SURVEY D	ATES:
Roy K. Matsushige	☐ REVISED	19TO 19	9
I. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	
Aerotriangulation - North Sect Oct. 6, 1975 Compilation - North Sect May 3, 1976 Amendment I Aug. 17, 197 Amendment II Jan. 14, 197	6		мау 7, 1975
II. DATUMS	DTUED (C. V.)	•	
1. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)		
ÆX MEAN HIGH-WATER ☐ MEAN LOW-WATER ÆX MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL	OTHER (Specify)		_
3. MAP PROJECTION		Canco	<u> </u>
,	STATE 4.	GRID(S)	
Transverse Mercator	Alaska	4	
5. SCALE	STATE	ZONE	· · · · · · · · · · · · · · · · · · ·
1:10,000		1	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	NAME C. Collegels		Mar 1976
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY			Mar 1976
METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	C Callanda		Apr.1976
METHOD: Coradomat CHECKED BY		<u>-</u>	Apr 1976
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	T Minton		Dec 1976
COMPILATION CHECKED BY	T D 1 1 /T D	yrd	Dec 1976
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.		
SCALE: 1:10,000 CHECKED BY	N.A.		
4. MANUSCRIPT DELINEATION PLANIMETRY BY			Jan 1977
CHECKED BY			Jan 1977
METHOD: Smooth drafted and CHECKED BY			
graphic			Jan 1977
scale: 1:10,000 CHECKED BY		· 	Jan 1977
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY			Jan 1977
(APPLICATION OF RIFL D FRIT RATA			Jan 1979
6. APPLICATION OF FIELD EDIT DATA CHECKED BY			Feb 1979_
7. COMPILATION SECTION REVIEW BY	11000001 021		Feb.1979
8, FINAL REVIEW BY		·	Sept 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY			Nov 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	- XXXXXX	<i></i>	Mar 1986

NOAA FORM 76-36B (3-72)	CON	TP-00794 APILATION SO		U.S. DEPARTMEN NIC AND ATMOSPHERIC NATIONAL	
). COMPILATION PHOTOGRAPHY			·		
CAMERA(S) Wild RC 8 E Wild RC 10 C	152.71 mm 88.47 mm		PHOTOGRAPHY GEND	TIME REFE	RENCE
TIDE STAGE REFERENCE		(C) COLOR		ZONE Alaska	XXISTANDARD
REFERENCE STATION RECORD	s	(P) PANCHRO	PMATIC	MERIDIAN	- AAJSTANDARD
TIDE CONTROLLED PHOTOGRA		(I) INFRARE	O	150th	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF	TIDE
757 (4) 0020, 0022	. Tal E 1075	00 27	1 20 000	0.6.64 ->	147 Y 57
75E(C)9929-9932	Jûl.5,1975	09:37	1:30,000	8.6 ft. above	
75C(C)6281,_6282	Jul.5,1975		1:60,000	7.6 ft. above	
75E(I)0629-0632*	Jul.8,1975	15:30	1:30,000	18.4 ft. above	
75E(I)0622-0625**	Jul.8,1975	15:18	1:30,000	13.1 ft. above	
75E(I)0762-0764**	Jul.9,1975	10:59	1:30,000	1.0 ft. below	
75E(I)0770-0774**	Jul.9,1975	11:15	1:30,000	1.0 ft. below	MLLW
				Mean tide rang	e 15.4 ft.
graphy. Bridge and /or The 1:60,000 scale phot high water at Seldbyia 2. SOURCE OF MEAN HIGH-WATER *The MHWL was compile photography.	ography was u LINE:	sed to comp Oft. above	olete the Kas MLLW.		nd.Mean
3. SOURCE OF MEANKEGREWAXER **The MLLWL was compil photography.			above tide c	coordinated infr	ared



HISTOI	ng) [FIELD			
1. 区区 FIELD INSPECTION OPERATION(Premarkin	ng) 🗀 FIELI			
		EDIT OPERATION		
OPERATION		NA	ME	DATE
1. CHIEF OF FIELD PARTY		•		
		R. Melby		Jun 1975
	RECOVERED BY	R. Melby None		Jun 1975
2. HORIZONTAL CONTROL ES	STABLISHED BY	R. Mêlby		Jun 1975
	RECOVERED BY	N.A.		omi 1975
	STABLISHED BY	N.A.		
PRE-MARKED OR		N.A.		
		None		
RECOVERED (Triangulate 4. LANDMARKS AND	ield Methods) BY	None		
AIDS TO NAVIGATION	IDENTIFIED BY	None		
TYPE OF INVES				
5. GEOGRAPHIC NAMES COMPLETE				
INVESTIGATION SPECIFIC N	NAMES ONLY			
₩ NO INVEST	IGATION			
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 CONT	ROL IDENTIFIED	
Paneled		None		
PHOTO NUMBER STATION NAME		PHOTO NUMBER	STATION DES	GNA TION
75Z(C)6793 PT. 2, 1963 (sub pt. paneled) 75E(C)9931				
3. PHOTO NUMBERS (Clarification of details)		<u> </u>		
None 4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFI	150			
4. EXHAUMATICS AND AIDS TO MAYIGATION IDENTIFY	IED			
None				
PHOTO NUMBER OBJECT NAME		PHOTO NUMBER	OBJECTA	
PHOTONOMBER		PROTO NOMBER	083661.8	TAME
E CECCHARUS HAMES				
7. SUPPLEMENTAL MAPS AND PLANS None	KNONE	6. BOUNDARY AND	LIMITS: REPOR	T NONE
8. OTHER FIELD RECORDS (Sketch books, etc. DO NO 1 - Form 152 2 - Form 277 (Tides Record Books)		ted to the Geodesy Divi	iston)	

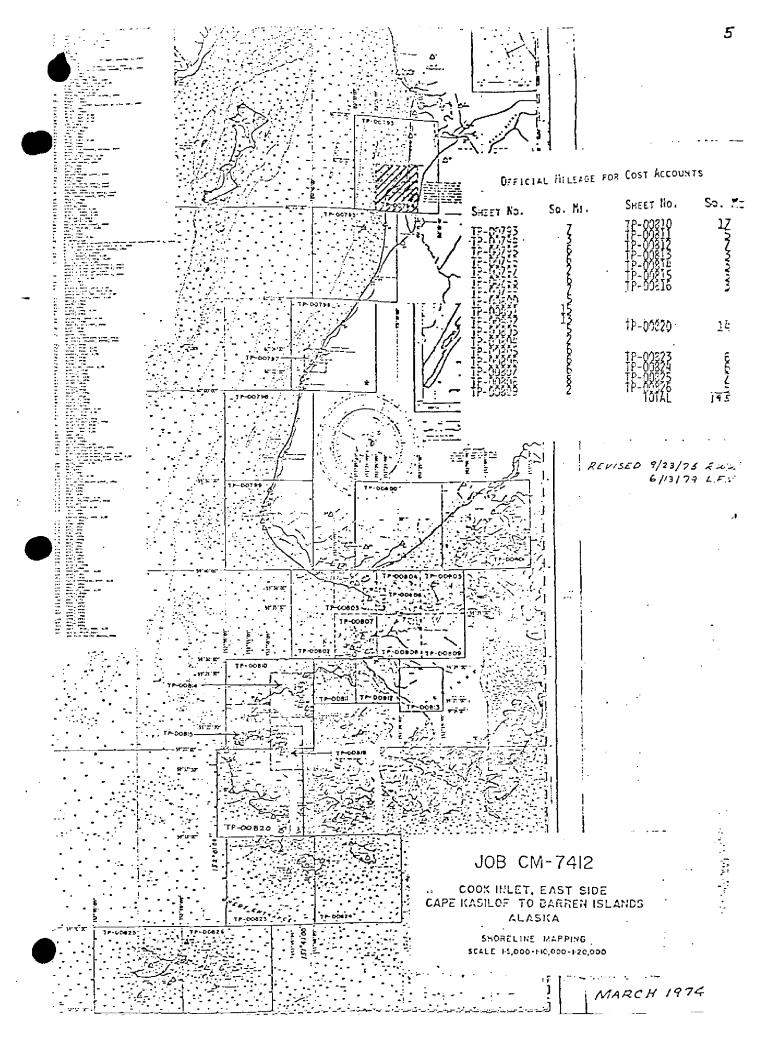
(3-72)	•	TP-0079		NIC AND ATMOSPHER	ENT OF COMMERCE IC ADMINISTRATION IAL OCEAN SURVEY
		HISTORY OF FIEL	-		
I. 🔲 FIELD INSPE	CTION OPER	RATION XX FI	ELD EDIT OPERATION		
	OP	ERATION		NAME	DATE
]. CHIEF OF FIEL	D PARTY		J. Randall		Aug 1978
		RECOVERED B			Aug 1978
2. HORIZONTAL C	ONTROL	ESTABLISHED B			
<u> </u>		PRE-MARKED OR IDENTIFIED B	Y None		
		RECOVERED B	Y S. Miller		Aug 1978
3. VERTICAL CON	TROL	ESTABLISHED B	Y None		
		PRE-MARKED OR IDENTIFIED B	Y None		
	RE	ECOVERED (Triangulation Stations) B	y None		
4. LANDMARKS AN	0	LOCATED (Field Methods) B			Aug 1978.
AIDS TO NAVIGA	A I ION	IDENTIFIED B	y None	<u>,</u>	
_ _		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		COMPLETE B	γ		
INVESTIGATION		SPECIFIC NAMES ONLY	•		
		NO INVESTIGATION			
6. PHOTO INSPECT	TION	CLARIFICATION OF DETAILS B	Y D. Smith		Aug 1978
7. BOUNDARIES AN	ID LIMITS	SURVEYED OR IDENTIFIED B	Y None		<u> </u>
II. SOURCE DATA	ONTRO: 155	NTIESE	A VERTICAL CO.	NTROL IDENTIFIED	
I. HORIZONTAL CO	UNTHOL IDE	NIIFIED	2. VERTICAL CON	NIROL IDENTIFIED	
None			None		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
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3. PHOTO NUMBER	RS (Clarificati	on of details)		L	
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		1, 0770, and 0773			
4. LANDMARKS AN	ID AIDS TO N	AVIGATION IDENTIFIED			
					
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
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j					
5. GEOGRAPHIC N		REPORT XX NONE	6. BOUNDARY AN	D LIMITS: REPO	ORT JUNONE
7. SUPPLEMENTAL	 -		U DOGRĐANT AN		XX
, , <u></u> ,, , ,	- 4101 3 2110				
None					
. OTHER FIELD F	RECORDS (Sk	etch books, etc. DO NOT list deta sub	mitted to the Geodesy D	Pivision)	
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NOAA FORM 76-36D

(3-72)

U. S. DEPARTMENT OF COMMERCE
TP-00794

		RECO	RD OF SURVE	Y USE		
I. MANUSCI	RIPT COPIES	·				
<u> </u>	c	MPILATION STAGE	\$ 1		DATE MANUSCR	IPT FORWARDED
	ATA COMPILED	DATE.	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
Compila	tion complete,	1	ł		}	
_	field edit	Jan 1977	Class III	Manuscript	Apr.4,1977	Mar.30,1977
<u> </u>		 				1142.00,1377
Field e	dit applied,		1		İ	
compila	tion complete.	Feb 1979	Class I M	lanuscript	Apr.9,1979	المنظل المستقد المستقد المنظل الم
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					mar 1986	mar 1986
Final R	eview	Sept 1985	Final Map		N.v 1385	, -
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						<u> </u>
II. LANDMA	RKS AND AIDS TO NAVIGA	TION				
1. REPO	RTS TO MARINE CHART D	VISION, NAUTICAL	DATA BRANCH			
NUMBER	CHART LETTER	DATE		,	REMARKS	
	NUMBER ASSIGNED	FORWARDED				_
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	EPORT TO MARINE CHAR					9
	EPORT TO AERONAUTICA		AERONAUTICAL	L DATA SECTION	. DATE FORWARDED:	
III. FEDER.	AL RECORDS CENTER DAT	r A				
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	RIDGING PHOTOGRAPHS;	XX DUPLICATE	BRIDGING REPO	76-46XI COMP	UTER READOUTS.	
	CONTROL STATION IDENT					
	SOURCE DATA (except for G ACCOUNT FOR EXCEPTION		port) AS LISTED	IN SECTION II, NO	70-39C.	
4 🖂	DATA TO FEDERAL RECO	ROS CENTER. DAT	E FORWARDED:			_
IV. SURVEY	Y EDITIONS (This section s	hall be completed as	ch time a new mai	o edition is reals:	ered)	
	SURVEY NUMBER	JOB NUMBE		r	TYPE OF SURVEY	
SECOND	TP -	(2) PH			REVISED RE	SURVEY
EDITION	DATE OF PHOTOGRAP	TATE OF FI	ELD EDIT]	MAPCLASS	_
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	SURVEY NUMBER	JOB NUMBER	3		TYPE OF SURVEY	
THIRD	TP -	(3) PH		j 🗆	REVISED RES	URVEY
EDITION	DATE OF PHOTOGRAP	DATE OF FI	ELD EDIT		MAP CLASS	
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	SURVEY NUMBER	JOB NUMBER	7		TYPE OF SURVEY	
FOURTH	TP				_	ÛRVÊY
EDITION	DATE OF PHOTOGRAP	DATE OF FI	ELD EDIT] 	MAP CLASS	
				₩"· ₩	III. □IV. □V.	FINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00794

This 1:10,000 Final shoreline map is one of twenty-nine maps designated as project CM-7412, Cook Inlet, East Side, Cape Kasilof to Barren Islands, Alaska.

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map portrays the west coast of Cook Inlet area, south of Kenai latitude $60^{\circ}20^{\circ}$ north to latitude $60^{\circ}25^{\circ}$.

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 in July 1975. The RC-8 (E) camera was used to expose both the natural color film required for the 1:30,000 scale aerotriangulation, compilation and the infrared black and white photographs. The infrared photography was used to supplement the color compilation photography. One model of color 1:60,000 scale aerotriangulation photography was used to complete the compilation of the manuscript.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project 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 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 February 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.

TP-00794

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-00794

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, $795_{10}^{79}798_{10}^{79}800_{10}^{9}802$); 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. The 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 raticed 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.

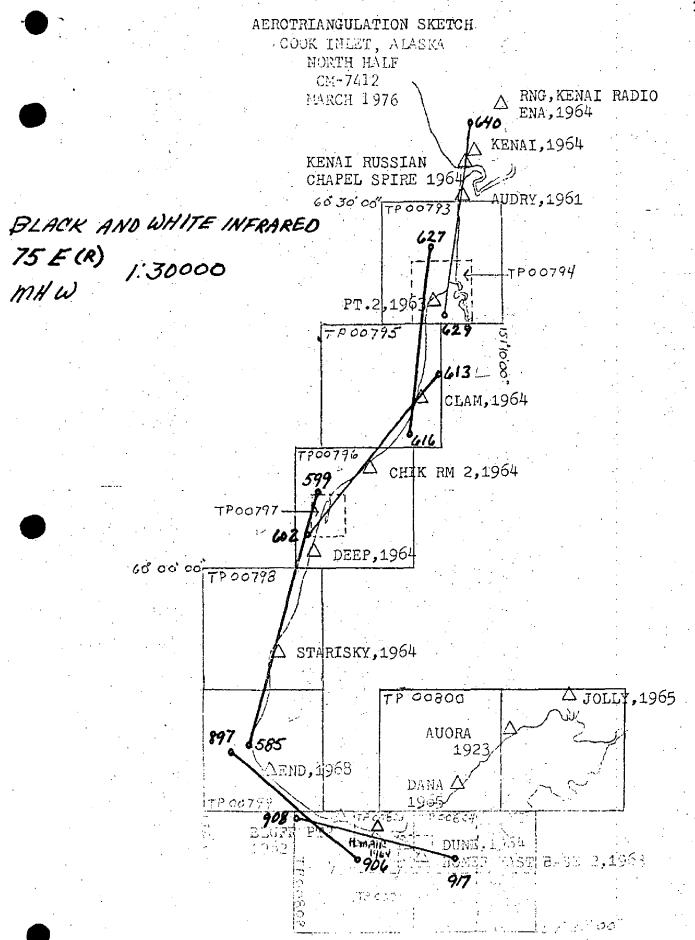
Photography

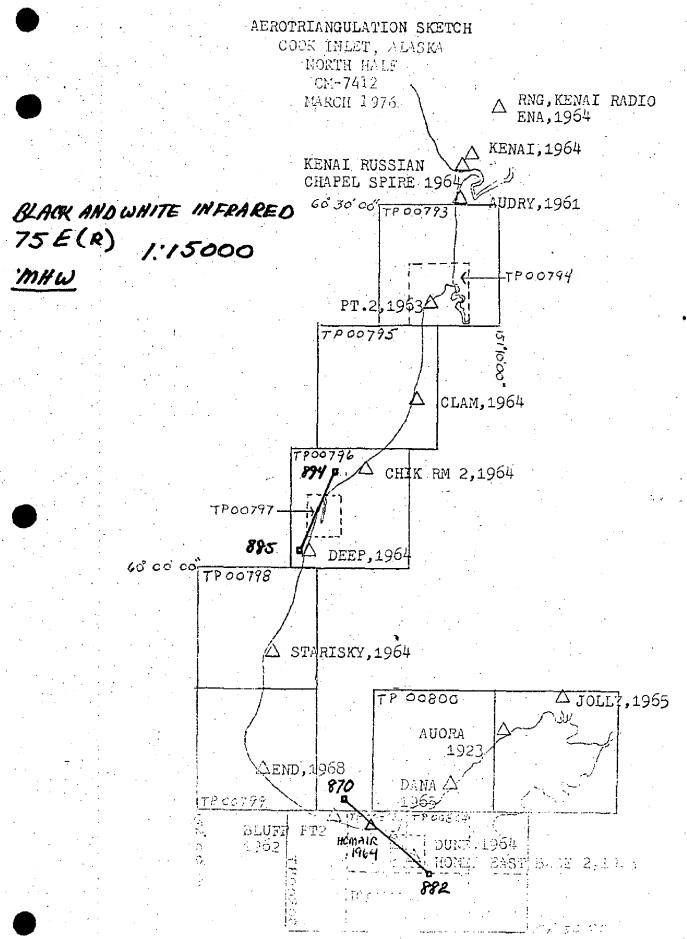
The coverage, overlap, and quality of the photography in general was adequate for the job.

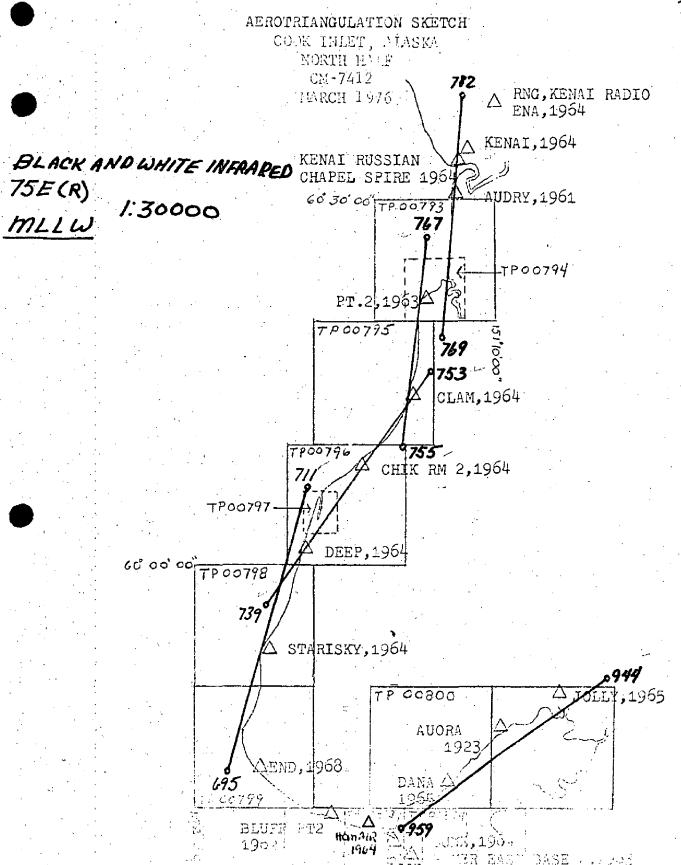
Approyed and forwarded:

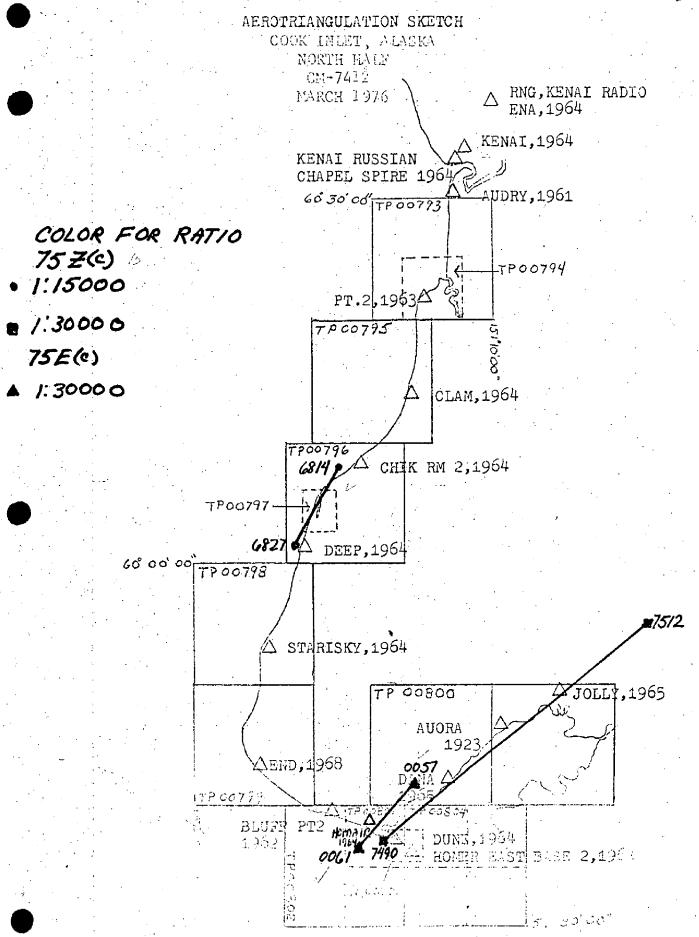
John D. Perrow, Jr. Chief, Aerotriangulation Section

AEROTRIANGULATION SKETCH COUK INLET, ALASKA NORTH HALF 06275 CM - 7412RNG, KENAI RADIO MARCH 1976 ENA, 1964 MENAI,1964 KENAI RUSSIAN CHAPEL SPIRE 1964 60 30 cd TP 00793 AUDRY,1961 COLOR BRIDGING PHOTOGRAPHY 0 75 C (c) 1:60000 TP00794 • 75 E(4) 1:30000 PT.2,196 TP 00795 · 75 圣(9) 1:15000 9234 p6287 9927 1 CLAM, 1964 TP00796# 6286 HIK RM 2,1964 TP00797-60 00 00 TP 00798 6315 9913 STARISKY,1964 0.0800. JOLLY,1965 AUORA. 6300, 192 end, 1968 / 6945 BLUFR PT2 1952 .195,-BASE COM . (.)









LIST OF ACCEUNCY OF CONTROL USED IN STEIP DUSTMENT

	POINT 276110 (RADIO, ENA 1964)	X error (ft)	Xerror (f
STRIP #1	276110 (RADIO, ENA 1964)	-4.342	+2.126
40	277100 (KENAI, 964)	+3.096	-1.403
	277100 (KENAI, 1964) (KENAI RUSSIAN 277113 (CHAPEL SPIRE, 196	+3.111	- 966
	278101 (AUDRY, SUB)	694	203_
	281101 (PT. 2 SUB) 289101 (CLAM SUB) 289101 (PT 1964)	- 4,894	+.309
	289101 (CLAM, SUB)	+1.731	t. 156
STRIP#2	289101 (CLAM)	+ 1.149	+.188
· · · · · · · · · · · · · · · · · · ·	291101 (SUB FT 1964)	- <i>2,5</i> 93	+.365
	294100 (DEEP, 1964)	12.09/	-1.854
<u> </u>	294101 (Sue PT)	+1.247	-3.760
en de marie de la companya de la co	297101 (STARISKY)	67.2	12.243
	300/0/ (SUB PT)	t. 024	946
			7.70
STRIP#3	954101 (2,1965,508 PT)	t 038	-1.192
	954/10 (HUMER SPITLT)	71.302	-2.238
	954/10 (MUMER SPIT LT) 954/10 (BECT FOMT 2 10 952/00 (BECT FOMT 2 10 100 (HOMER ABRO)	UNE) - 316	+3.060
	949110 (HOMER AERO)	+2.374	+3.742
The second secon	948/10 (HOMER RADIO)	-2.141	144
The second secon	945 110 (HODER RTR UNLITED MAST)		
	2/10/ (RMY 1954)	+2.508 -1.282	- 3.564
	, i	The state of any of the state o	-3.596
2	300 80/ (STRIP #2)	-1.547	+8.669
	300802 (")	2 2	623
	_300.803.(")	t 3.827	+1.389

	Xerror (ft)	Yerror (ft
PIP#4 18801 (#3)	- 4.690	-2.056
18802 (43)	+ 2.598	-2.468
948110 (RANGE CENTER)	11.825	-5.416
948802 (#9)	+4.084	+ , 238
948803 (#9)	+2.159	841
949110 (HOMETE AERO)	-6.364	260
949802 (#9)	-1.658	083
9110803 (#9)	±.336	287
17801 (#3)	-3.734	T2.154
301 101 (HOMAIR 1824)	465	t = 354
Comp (- (Court 19/4)	-2.808	16.592
954/0/ (2 1965 SUR PT)	13.966	+20, 221
954110 (HOMER SPIT)	- 6.957	r10.535
3641/0 (RADIO MON. 1964)	-1.881	t 9.363
305/0/ (SUB PT)	t.705	t2.009
307/0/ (AURORA 1923)	+1.897	+ .632
3/0/00 (JOLLY 1965)	690	550
STRIP #5		
294100 (DEEP, 1964)	- 1.456	+2.391
294101 (SUB PT.)	-1.231	+1.392
91680/ (#2)	025	+ .575
916802 (42)	+ . 486	+ 2.996
917801 (#2)	+1.606	+ .551
918801 (#2)	012	-1.965
919801 (#2)	+ 3.772	-1.728
920801 (#2)	+ . 565	-1.202

e e e e e e e e e e e e e e e e e e e			18
		X error (ft)	Yerror (ft
TRIP#5	921801 (#2)	950	+2.448
(CON'T)	29/10/ (CHIK RM 2)	-4.528	+ . 226
	922801 (#2)	-3.924	-4.099
	923801 (#2)	+ .005	-4.693
	924801 (#2)	+2.020	- , 555
	925801 (#2)	+ . 229	+.128
	289101 (CLAM 1964)	061	7.316
	926803 (#2)	+1.867	-2,156
	926804 (#2)	+1.501	-2.488
			, —
STRIP#6	(
	928801 (#1)	404	179
#1	928802 (#1)	182	t. 528
	930801 (#1)	<i>†1.36</i> 2	043
	93/80/ (#1)	-1.325	-3,93 <u>1</u>
	28/10/ (PT 2,1963) SUB PT)	-5.609	+ . 708
	232801 (#1)		+5.442
	932802 (#/_)	75.104	+1.864
	933801 (41)	-/0.592	+3.093
	933 802 (#/)	+1.112	£ 35/
0 4		and the same of th	<u> </u>
STRIP#7	· · · · · · · · · · · · · · · · · · ·		
	816801 (45)	451	066
	816802 (45)	+ .986	+.876
	816803 (#5)	+ 1.673	r1.009
_	816804 (#5)	+1.681	t 2. 686
	2178A1 (#5)	+1, 307	+1.566

		19
		•
	X error (ft)	Yerror (A)
Soip#7 818801 (45)	+ . 563	+ .060
(CONT) 819801 (#5)	t.919	+.616
820802 (#5)	-2.371	+1.092
	+ .520	+1.577
82080@1 (#5)	764	-1.19]
821802 (#5)	·	e en la
822801 (#5)	-1.233	.695
822802 (45)	-2.874	100
822802 (#5) 823801 (#5)	542	-1.085
824801 (#5)	+1.164	- :042
294 100 (DEEP 1864)	276	151
294101 (SUB PT)	187	632
825801 (#5)	374	-1.034
• 825802 (#5)	+.160	+1:685
818802 (#5)	883	
010000		646
STRIP#9		
GUSTIO WHIGHTOD MAST OF	7.015	- 0 3U
948/10 (5.1964 HOMER PADIO)		-,024
CUCUM (HOMETE HERO)	+ .289. 006	- 5.417
$\int \Delta u dv = i\Delta v$	_	+.001
HOMER EAST BY	l maii	142
95410/ (2,1965 SOB PT 954110 (HOMER SPIT	1 212	665 -1.641
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COMPILATION REPORT

TP-00794

31 - DELINEATION

Delineation was by stereoplotter and graphic methods. The Wild B-8 stereoplotter with 1:30,000 scale bridging color photographs was used to delineate the shoreline and interior details and to locate common detail points needed for the graphic use of the 1:30,000 scale infrared photography. One model of 1:60,000 scale bridging photographs was used to complete the delineation of Kasilof River. The MHWL and MLLWL were 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 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 landmarks within the limits of this manuscript. Two nonfloating aids for navigation are shown.

TP-00794

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 Quadrangle: 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. 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:

James R. Minton
Cartographic Technician
January 24, 1977

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

TP-00794

FIELD EDIT

Field edit rock data was computed from predicted tide tables since there was no approved tide data available. 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)

<u>TP - 00794</u>

Cape Kasilof

Cohoe

Cook Inlet

Kalifonsky

Kasilof

Kasilof River

Approved by;

Charles E. Harrington Chief Geographer Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-78 CM-7412

TP-00794

ALASKA
COOK INLET, EAST SIDE
CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

August 2 - August 18, 1978



51 METHODS

Field edit of TP-00794 was accomplished between August 2 and August 18, 1978 using a 4 wheel drive truck, inflatable outboard powered skiff, and 16' "Boston Whaler" for transportation. Topographic detail was edited and noted on photos 0763, 0764, 0770, 0773, and the Master Field Edit Ozalid, with notes color coded as follows:

Violet - verification Red - addition or revision

Green - deletion

Ten photo signals were located by radial plot for visual position control (see signal overlay sheet).

Photo-identifiable features compiled on the manuscript were verified in the field by sextant positioning (intersection and resection) and inspection of the photos. Sextant fixes were plotted directly on the signal overlay sheet with a 3-arm protractor in the field and exact G.P.s computed upon return to the ship. Sextant fixes taken to verify photo-identifiable features were not assigned position numbers and are included in the data as verification of the feature noted on the photos, not as a source of position for the feature.

Features not compiled on the manuscript and not identifiable on the photos were located by sextant resection and plotted on the Master Field Edit Ozalid. These fixes were assigned a position number and include a check angle which plots within 10 meters of the fix (1mm at 1:10,000 scale). The new features were plotted on the Master Field Edit Ozalid with a vernier scale 3-arm protractor of 1' accuracy. Computed position printouts are included with the data package.

All rocks visible at -3 foot of tide were located on the photographs or positioned by 3-point sextant fix. Rock heights were estimated at the rock and recorded with Greenwich Mean Time. Rocks deleted from the manuscript were searched for at -2 to -4 foot tides using sextant positioning.

52 ADEQUACY OF COMPILATION

Additions and deletions of detail necessary to render TP-00794 complete and adequate are noted on photos 0763, 0764, 0770, 0773, and the Master Field Edit Ozalid. Items requiring further explanations are as follows:

The bulkhead and boat ramp near the mouth of the Kasilof River (Lat 60/23/13, Long 151/17/44) was built after the 1975 photography and compiled by the field editor. Dimensions, position numbers, and details of construction are included in a drawing submitted with this report (separates to the text).

The rocks deleted at the mouth of the Kasilof River, #60 and #61, were plotted on a mud flat which bares at a negative tide. The area was searched on foot with sextant positioning and no rocks were found. Rocks #62, #63, #64, and #65 located south of the Kasilof River are also located in an area which bares at negative tides. A foot search of the area located no rocks. The images on the photographs were probably small fishing dorys moored off the beach. The 5 rocks located approximately Lat 60° 22' 40" N, Long 151° 22' 15" W were searched for at -4 ft. of tide from a skiff positioned by sextant. No rocks were located. The images again are probably some of the numerous fishing dorys moored in the area.

The Kasilof River range markers located photogrammetrically on TP-00794 have been replaced and are no longer of value to navigation. The old towers, although still standing, are delapidated, have had the placards removed, are unlit, and are not visible from any useful distance seaward. The new range consists of an 18' rear marker with a 6' orange and white diamond target and flashing white light. The front range marker is a 5' post with a 20"x12" orange and white reflective target. The new front range is unlit, is very difficult to see from seaward, and should be indicated so on the chart. The new range was positioned by trilateration (taped distances) from the old range. These positions are based on the photogrammetric positions of the old range. Geodetic positions are not available at this time.

NEW KASILOF RIVER REAR RANGE LAT 60/23/16.51 LONG 151/18/46.06

NEW KASILOF FRONT RANGE LAT 60/23/16.57 LONG 151/18/47.94

TRUE BEARING OF RANGE = 930 46'

See Separates to Text for computations.

53 MAP ACCURACY

Positional accuracy of the compilation was verified throughout the sheet when work incidental to the field edit required positioning of photo-identifiable features such as rocks. Map accuracy was also

confirmed by the close comparison of fixes and check fixes taken from photo-located signals. The accuracy of the MHWL was verified by tape measurements from photo-identifiable features. Because of local reports of shifting, the location of the Kasilof River channel through the tidal mud flats was verified by 3 point sextant fixes taken at low water. The channel was found to be accurate as compiled. Compilation in general was found to be accurate. Changes and additions are noted on the Master Field Edit Ozalid.

54 RECOMMENDATIONS

It is recommended that TP-00794 be revised in accordance with the information presented in this report.

55 MISCELLANEOUS

The 10 photo-signals located in this survey were positioned by radial plot on the photo signal overlay sheet.

Moproved by

James P. Randall

Captain NOAA

Respectfully submitted

ENS NOAA

REVIEW REPORT TP-00794 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 (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-9891, scale 1:5,000, dated November 4, 1981.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the NOS charts: 16660, scale 1:194,000, dated May 8, 1982, 16662, scale 1:100,000, dated April 4, 1983 with 1:50,000 scale inset.

The above listed charts compared well with this manuscript.

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

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

TP-00794

Submitted by, Charles & Blood / Jane J. Byrd J.

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

Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved,

Chilef, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

HYDROGRAPHIC PARTY
GEODETIC PARTY
PHOTO FIELD PARTY
MY FINAL LATION ACTIVITY
COALTY CONTROL & REVIEW GRP. (See reverse for responsible personnel) AFFECTED 16662 16660 16660 16662 ORIGINATING ACTIVITY 1978 1978 METHOD AND DATE OF LOCATION (See instructions on reverse side) FIELD 18, Aug. 18, F-1-1 F-L-1 Aug. Jan. 1979 NONFLOATING AIDS CREEKANDRARKS FOR CHARTS July 5, 1975 July 5, 1975 75E(C)9930 75E(C)9930 DATE OFFICE Is. Cape Kasilof to Barren Cook Inlet, East Side been inspected from seaward to determine their value as landmarks. D.P. Meters 47.94 46.06 LONGITUDE 18 18 151 151 POSITION N.A. 1927 D.M. Meters 16.57 16.51 LATITUDE 23 23 9 9 0 DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in perentheses) Alaska New Kasilof River Rear Range Light New Kasilof River Front Range Post SURVEY NUMBER TP-00794 REPORTING UNIT Field Perv. Ship of Office, Coastal Mapping Unit AMC, Norfolk, VA The following objects HAVEXX HAVE NOT OPE PROJECT NO. CM-7412 Replaces C&GS Form 567. KX TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 CHARTING NAME P114 RANGE RANGE POST POST

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rsection 7 - Planetable ction 8 - Sextant ction 8 - Sextant positions* require entry of method of ion and date of field work. E: F-2-6-L 8-12-75 ONS are determined by field obserdentirely upon ground survey methods.	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	TED OBJECTS (including month, ograph used to ject.	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,	C. Blood	D. Smith R. Kravitz	D. Smith	NAME	RESPONSIBLE PERSONNEL
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IFIED VISUALLY ON PHOTOGRAPH Vis. 12-75 FIELD POSITIONS are dependent part, upon control established ric methods.	ION STATION RECOVERED imark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery. Jriang. Rec. 8-12-75	Cont'd) Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photo- graph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	, 1	XX REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE	XXI PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 78-40 (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

NAUI MAL Seren.

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Rev

CHART	DATE	CARTOGRAPHER	REMARKS
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