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.
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CM-7412	2	
Map Classificati	on	
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Amendment II Jan. 14, 1977		
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NOAA FORM 76-36B (3-72)		TP-00804	NATIONAL OCEAN	NIC AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION AL OCEAN SURVEY
	COM	APILATION SO	URCES		
1. COMPILATION PHOTOGRAPH	Y				
CAMERA(S) Wild RC 8E 15	52.71		PHOTOGRAPHY EGEND	TIME REF	ERENCE
TIDE STAGE REFERENCE		· (C) COLOR		ZONE	STANDARD
XXPREDICTED TIDES	RD5	(P) PANCHR	OMATIC	Alaska Meridian	⊢‴
XXTIDE CONTROLLED PHOTOG	RAPHY	(I) INFRARI	₹D	105th	DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE O	FTIDE
75E(C)0008-0011	Jul.5,1975	11:36	1:30,000	14.8 ft. abo	vo MTTW
75E(I)1518-1519	Aug.10,1975		1:30,000	0.85 ft. abo	
75E(I)1466-1467*	Aug.7,1975	12:42	1:30,000	18.65 ft. ab	
76E(I)2059**	Jun.12,1976		1:30,000	1.95 ft. bel	
76E(I)4077-4078**	Jun.12,1976		1:30,000	0.49 ft. bel	ow MLLW
				Maran Adda was	15 /
				Mean tide ra	nge 15.4
REMARKSBridge and/or o	compilation pho	tograph cer	nters are not		manuscript.
A tide gage was read					
The Mean High Water a		17.0 ft. al	oove MLLW.		
2. SOURCE OF MEAN HIGH-WAT	ER LINE:				
*The MHWL was compil	lod from office	intorment	ation of the	above listed 1	-30 000
color photographs u					
by graphic methods					
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3. SOURCE OF MEANKER WAXE	SEXOR MEAN LOWER LO	W-WATER LINE:	<u> </u>		
				3	
**The MLLW line was o infrared ratio phot		cally from	the above ti	de coordinated	
intrared facto phot	ograpus.				
			*		

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY COPY USED DATE(S) SURVEY NUMBER 5. FINAL JUNCTIONS NORTH (scale 1:20,000) EAST SOUTH WEST_TP-00803 TP-00806 TP-00800 TP-00805 TP-00808 REMARKS

The Homer Spit area is not shown on this 1:10,000 scale map; it is shown on a 1:5,000 scale map TP-00806.

NOAA FORM 76-36C (3-72)	TP-00804	U. S NATIONAL OCEANIG AND A	DEPARTMENT OF COMMERCE TMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY
·	HISTORY OF FIELD	OPERATIONS	
I, XX FIELD INSPECTION	OPERATION (Premarking)	D EDIT OPERATION	
	OPERATION	NAME	DATE
1. CHIEF OF FIELD PART	TY	5 W- 31]
	RECOVERED BY	R. Melby	Jun 1975
2. HORIZONTAL CONTRO		None None	
& Homeon ne son : 2	PRE-MARKED OR IDENTIFIED BY	None	
-	RECOVERED BY	N.A.	
3. VERTICAL CONTROL	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	N.A.	
	RECOVERED (Triangulation Stations) BY	R. Melby	Jul 1975
4. LANDMARKS AND	LOCATED (Field Methods) BY	R. Melby	Jul 1975
AIDS TO NAVIGATION	IDENTIFIED BY	None	
 -	TYPE OF INVESTIGATION		
5. GEOGRAPHIC NAMES	COMPLETE BY		
INVESTIGATION	SPECIFIC NAMES ONLY		
<u></u>	XX NO INVESTIGATION	 	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	
7. BOUNDARIES AND LIMI	IITS SURVEYED OR IDENTIFIED BY	N.A	
II. SOURCE DATA I. HORIZONTAL CONTRO	I IDENTIFIED	2. VERTICAL CONTROL IDE	NTIFIED
None		None	N. I. 144
PHOTO NUMBER	STATION NAME	 	STATION DESIGNATION
3. PHOTO NUMBERS (Clar	rification of details)		
None			<u> </u>
4. LANDMARKS AND AIDS	S TO NAVIGATION IDENTIFIED		
None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AND LIMITS:	REPORT XX NONE
7. SUPPLEMENTAL MAPS			نفيه السا
None			<u> </u>
1 Form 76-40	DS (Sketch books, etc. DO NOT list data submit 2 Form 277, 1 Form 77-53 (1	·	

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	OPERATION	N/	ME	DATE
. CHIEF OF FIELD PART	Y	Mah la		7 1000
	RECOVERED BY	W. Mobley J. Talbott		Jun 1980
. HORIZONTAL CONTROL				Jun 1980
	PRE-MARKED OR IDENTIFIED BY	None		3001 1780
	RECOVERED BY	None		
VERTICAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED (Triangulation Stations) BY	J. Talbott		May 1980
. LANDMARKS AND	LOCATED (Field Methods) BY	J. Talbott		May 1980
AIDS TO NAVIGATION	IDENTIFIED BY	None		
	TYPE OF INVESTIGATION			
GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			1
	XX NO INVESTIGATION			ļ
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	R. Hastings		Jun 1980
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. SOURCE DATA				
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B. PHOTO NUMBERS (Clari	ification of details)			·
75E(I)1518 and	1519			
LANDMARKS AND AIDS	TO NAVIGATION IDENTIFIED	 		
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PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME
5. GEOGRAPHIC NAMES: 7. SUPPLEMENTAL MAPS	REPORT XXNONE AND PLANS	6. BOUNDARY AND	LIMITS: RE	PORT XX NONE
None OTHER FIELD RECORD Master Field Ed	S (Sketch books, etc. DO NOT list date subm	itted to the Geodesy Div	ision)	
Field Edit Repo Form 76-40				

NOAA FORM 76-36D

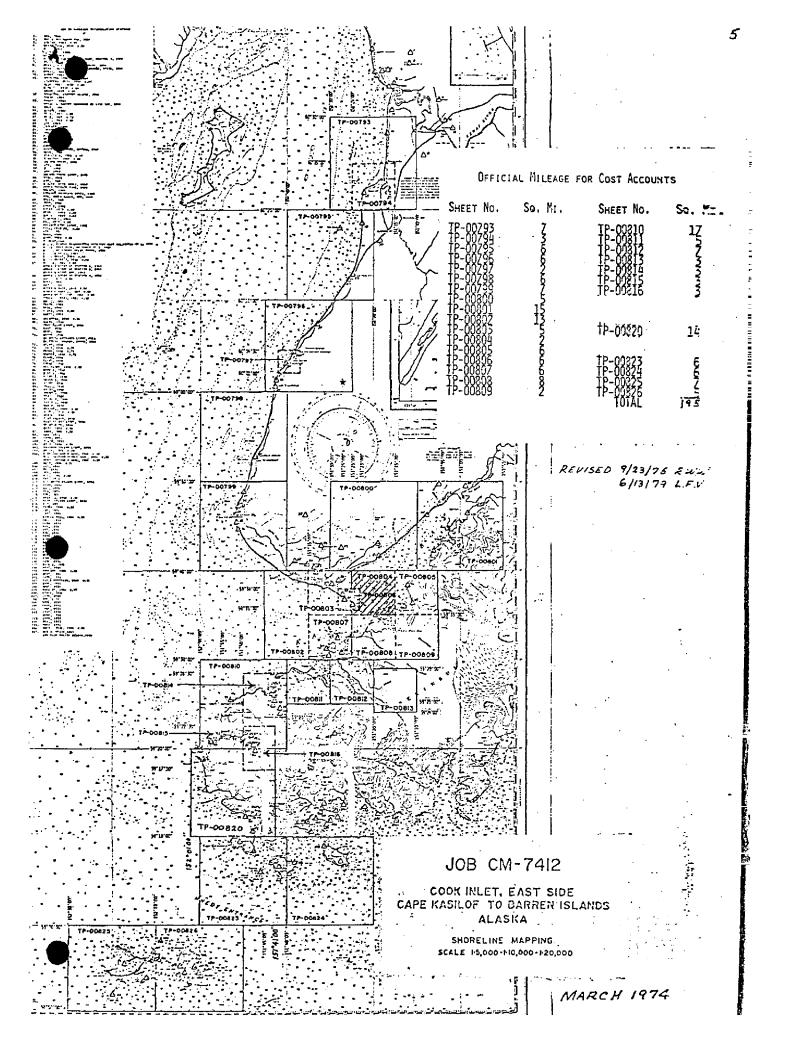
(3-72)

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

TP-00804

RECORD OF SURVEY USE

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2. R	EPORT TO MARINE CHAR	ועום	SION, COAST	PILOT BRANCH.	DATE FORM	VARDED:	بايداد	1981	
3. 🗀 R	EPORT TO AERONAUTICA	L CH	RT DIVISION	, AERONAUTICAI	L DATA SECT	TION. D	ATE FOR	WARDED:	
III. FEDER	AL RECORDS CENTER DAT	ΓA							
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IV. SURVEY	EDITIONS (This section s	hall b			p adition is re	-			
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SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00804

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

The purpose of this project was to provide current charting information for nautical chart maintenance and to furnish support data for hydrographic operations. This Final Map covers Gull Island and a section of south Kachemak Bay shoreline. The area shown is between longitudes 151°15.0' and 151°25.0' and between latitudes 59°35.0' and 59°40.0'.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aero-triangulation 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-8 (E) camera was used to expose the natural color film required for the 1:30,000 scale aerotriangulation, compilation photographs taken July 1975. The RC-8 (E) camera were used for the infrared black-and-white 1:30,000 scale photographs taken July and August 1975 and June 1976. The infrared photographs were used to supplement the color compilation photography.

Analytic aerotriangulation was adequately provided by the Washington Science Center for the north part of the project March 1976 and the south part of the project 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 March 1980. Refer to the compilation report, item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in June 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 June 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 Cetner for final registration.

FIELD INSPECTION

TP-00804

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 Art 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, 795,4798,803,802); 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 75C(C)6301-6315), was ratioed for compilation purposes. Both were flown during mean high water.

On strip 75E(C)0057-0061, 900 points were dropped so that this strip could be used on the Wild B-8 stereoplotter to compile the NE corner of TP-00803.

Strip 75Z(C)6945-6956 was to be used for the compilation of TP-00806. Although there is color coverage (flown at mean high water) for TP-00800, no black and white infrared photography was available which covers this area at mean high water.

24. Supplemental Data

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

25. Photography

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

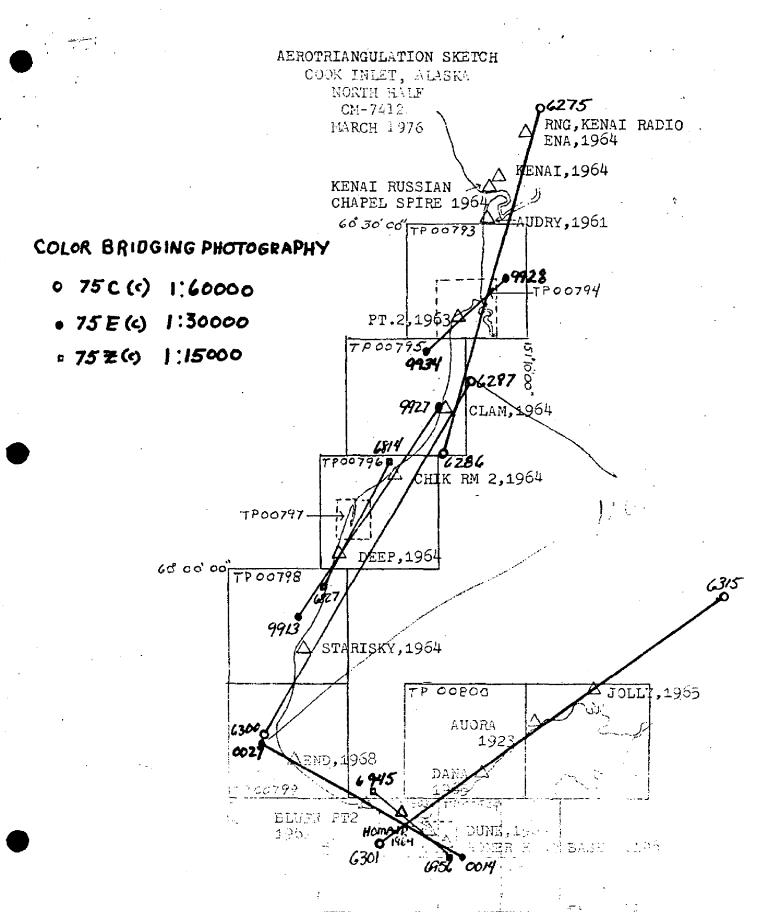
espectfully submitted

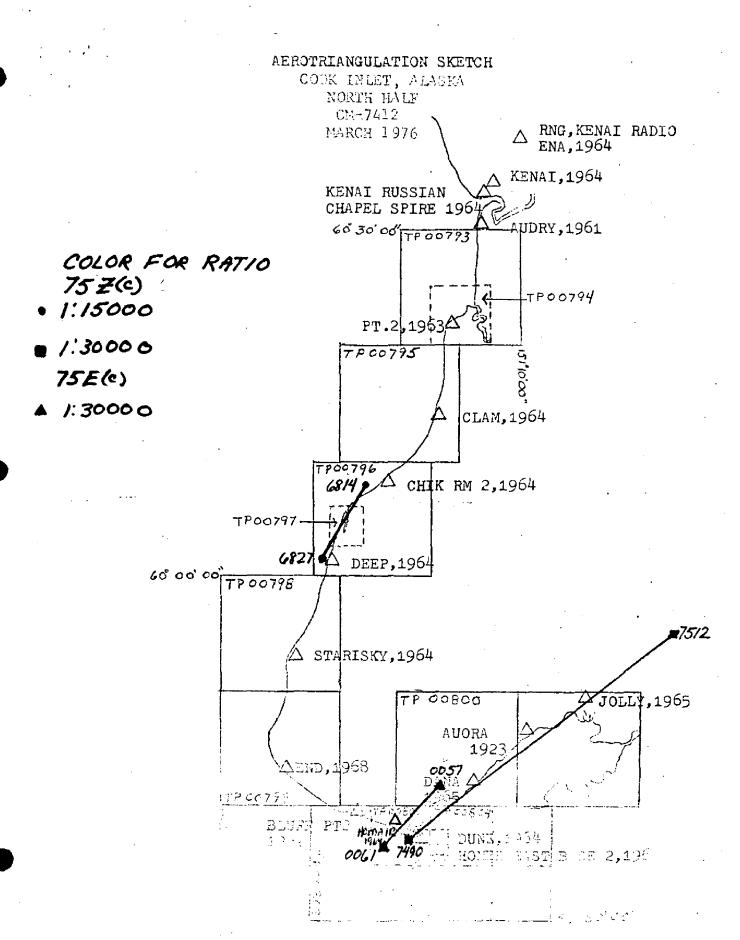
ternen ha Solt

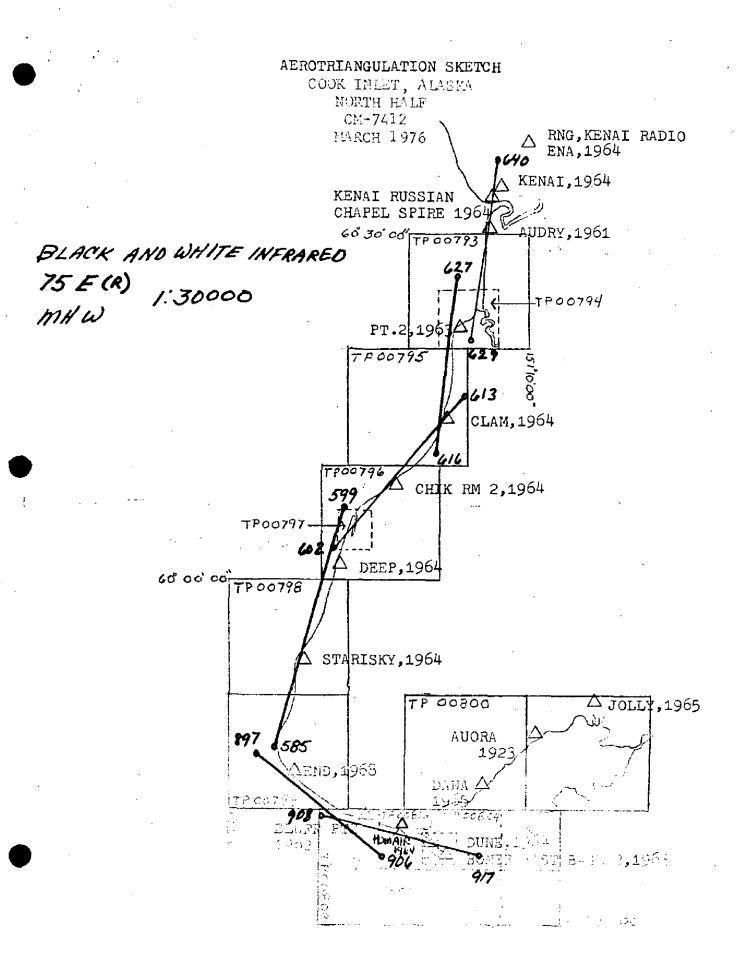
Approved and forwarded:

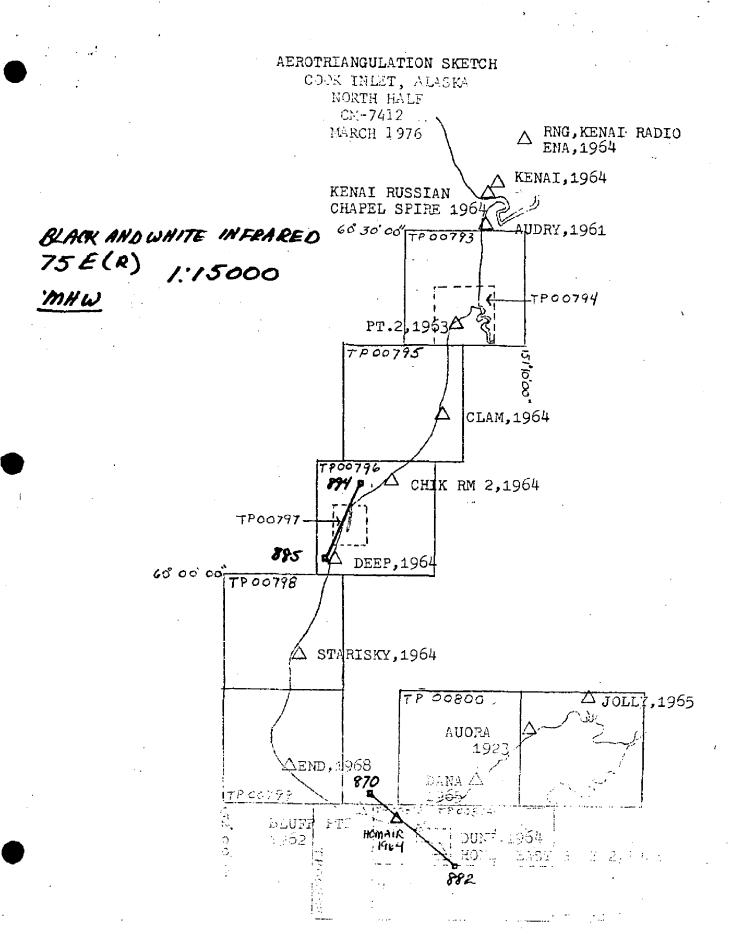
John D. Perrow, Jr.

Chief, Aerotriangulation Section









AEROTRIANGULATION SKETCH COOK INLET, ALASKA NORTH HALF CM-7412 782 RNG, KENAI RADIO MARCH 1976 ENA, 1964 KENAI, 1964 BLACK AND WHITE INFRARED KENAI RUSSIAN CHAPEL SPIRE 1964 75E(R) 60 30 00 TP 00793 AUDRY,1961 1:30000 MLLW 767 TP00794 PT.2,1953 TP00775 753 CLAM, 1964 TP00796 CHIK RM 2,1964 711 TP00797 DEEP, 1964 60'00'00 TP 00798 739 STARISKY,1964 TP 00800 **AUORA** Han 1/12 190 SE

LIST OF ACCEURCY OF CONTROL USED IN STEIP ADJUSTMENT

STRIP#1 276110 (RADIO, ENA 1964)	X error (ft)	. Xerror (f
STRIP # 1 276/10 (RADIO, ENA 1964)	-4.34.2	+2.126
277100 (KENA), 1964	+3.096	-1.403
277100 (KENA), 1964 KENAI RUSSIA 277113 (CHAPEL SPIRE, I	964) +3.111	966
278101 (AUDRY, SUB	3)694	203
281101 (PT. 2, SUB) -4.894	+ . 309
289101 (CLAM , SUB)) +1.731	+. 156
STRIP#2 289101 (CLAM)	+ 1.149	+.188
291101 (SUB F.T. 1964)), <i>- 2,5</i> 93	+ .365
294/00 (DEEP, 1964)		-1.854
294101 (508 PT)	+1.247	-3.760.
297101 (STAPISKY)	672	12.243
30010/ (SUB PT)	t. 024	9.46
NOTER EIST BISE	; ;	
STRIP#3 954101 (2)1965, SUB PT) + .038	-1.192
954110 (HOMER SPIT LT) -1.302	-2.238
957100 (1954 1954)	(1964) 316	#3.060
957100 (BILLET 1601) 2 957100 (BILLET 1954) (HOMER ABOC) 140MER PADIC)	+2.374	+3.742
948/10 (RAMBE GENTER)	2. 141	- 0144
945/10 (HOMER PTR ONLITED MAST)	+ 2.508	03.9
2/10/ (BLUFF POINT 3	-1.282	-3.596
30080/ (STRIP #2)	-1.547	+8.669
300802 (")	-2.721	
300 203 (")	+ 3.827	+1. 3.89

· · · · · · · · · · · · · · · · · · ·	_	
	X error (ft)	Yerror (ft)
JRIP#4 18801 (#3)	- 4.690	-2.056
18802 (#3)	+2.598	- 2.468
948110 (HOMER RADIO)	#1.825	-5.416
948802 (#9)	+4.084	+ . 238
948803 (#9)	+2.159	841
949110 (HOMETE AGRO)	-6.364	260
949802 (#9)	-1.658	083_
949803 (#9)	+. 336	287
17801 (#3)	-3.734	t2.154
301 101 (HOM AIR 1964)	465	+.356
T 952/00 (DUNG, 1964)	-2.808	+6.592
-954/0/ (ADMER EASTBASE)	-13.966	120, 221
954110 (HOMER SPIT)	- 6.957	r10.535
364/10 (VOR HOMER RADIO MON 1964)	-1.881	<u>+ 9. 363</u>
305/0/ (SUB PT)	+ .705	t2.009
307/0/ (AURORA 1923)	+1.897	+ .632
3/0/00 (JOLLY 1965)	690	550
STEIP #5		• • • • • • • • • • • • • • • • • • •
294100 (DEEP, 1964)	- 1.456	+2.391
294101 (SUB PT)	-1.231	+1.392
91680/ (#2)	625	+ .575
916802 (42)	+ . 486	+ 2.996
9/7801 (#2)	+1.006	+ .551
918801 (#2)	012	-1.965
919801 (#2)	+ 3.772	-1.728
920801 (#2)	+ . 565	-1.202

	· · · · · · · · · · · · · · · · · · ·	J (-
	X error (ft)	Yerror (ft
STRIP#\$ 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	585
92580/ (#2)	+ . 229	+.128
28910/ (CLAM 1964)	061	316
926803 (#2)	+1.867	-2,156
92680Y (#7)	+1.501	-2.488
STRIP # 6	·	
928801 (#1)	404	179
928802 (#1)	182	t. 528
930801 (#1)	+1.362	043
931801 (#1)	-/. 325	-3,93 <u>1</u>
28/10/ (PI E,1765)	-5.609	+ . 708
232801 (#1)	+5.165	+5.442
932802 (#/)	75.104	+1.864
933801 (#1)	-10.592	
933 802 (#/)		+ 351
STRIP#7		
816801 (#5)	451	066
816802 (45)	+ .986	+.876
816803 (#5)	+1.673	r1.009
816804 (#5)	+1.681	t2.686
817801 (#5)	+1.307	+1.566
	557	

	X error (ft)	Yerror (A)
STRIP#7 818801 (#5)	+.563	+.060
(CONT) 819801 (#5)	+ . 919	+.616
820802 (#5)	-2.371	+1.092
82080 a 1 (±5)	+ ,520	+1.577
821801 (#5)	764	-1.191
821802 (#5)		
822801 (#5)	-1.233	.695
822802 (#5)	-2.874	
823801 (#5)	- .542	-1.085
824801 (#5)	+1.164	042
294 100 (DEEP 1964)	276	151
294.101 (SUB PT)	187	632
825801 (#5)	374	-1.034
825802 (#5)	+.160	+1.685
818802 (#5)	883	646
STRIP#9		· .
945110 (HOMER RTR UNLIGHTED MAST OF) HOMER PADIO	7.015	1-,024
948/10 (HOMER RADIO)	+ .289	-5.417
949110 (HOMER AERO)	006	+.001
952100 (DUNE 1964)	+1.317	142
(HOMER EAST BASE)	+.004	665
95910/ (2,1965 SOB PT) 959110 (HOMER SPIT) 259110 (LIGHT 1964)	-1.210	-1.041
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Photogrammetric Plot Report Cape Kasilof to Barren Islands Job CM-7412 South Mart January 1977

Job index was revised June 13,1979 . Number of sheet's compiled, revised March 7, 1984 C.E.B.

Area Covered

The area covered by this report is the south central coastal area of Cook Inlet, Alaska, from Cape Kasilof to Barren Island. This area is covered by Elven 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

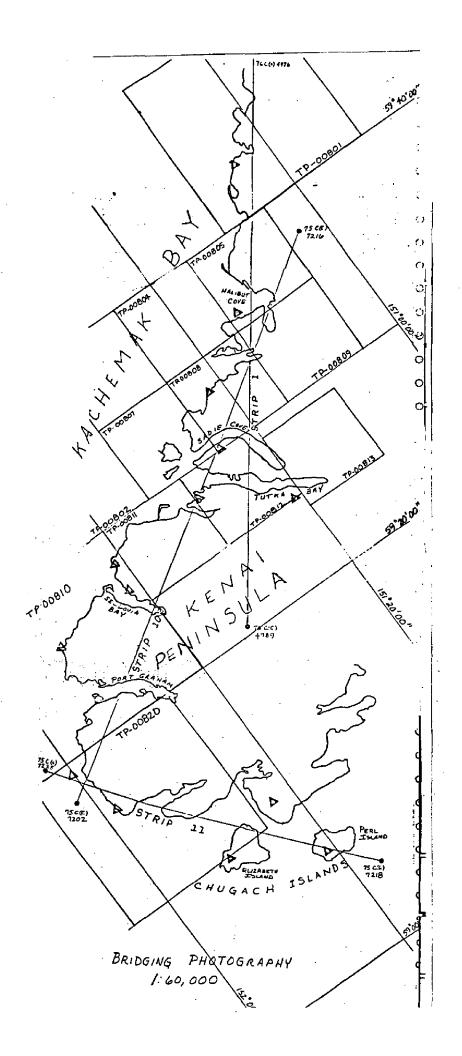
The coverage, overlap and quality of the photography was adequate for the job with the exception of the above mentioned "C" camera.

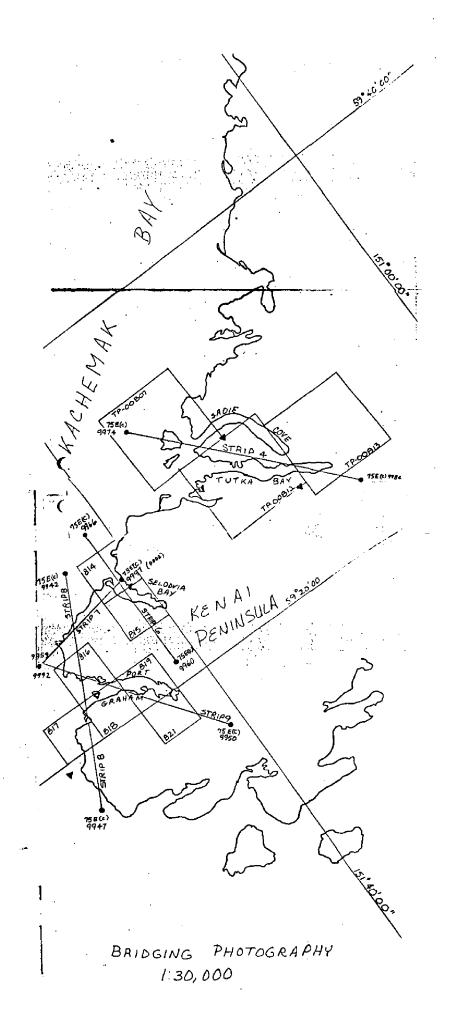
Submitted by:

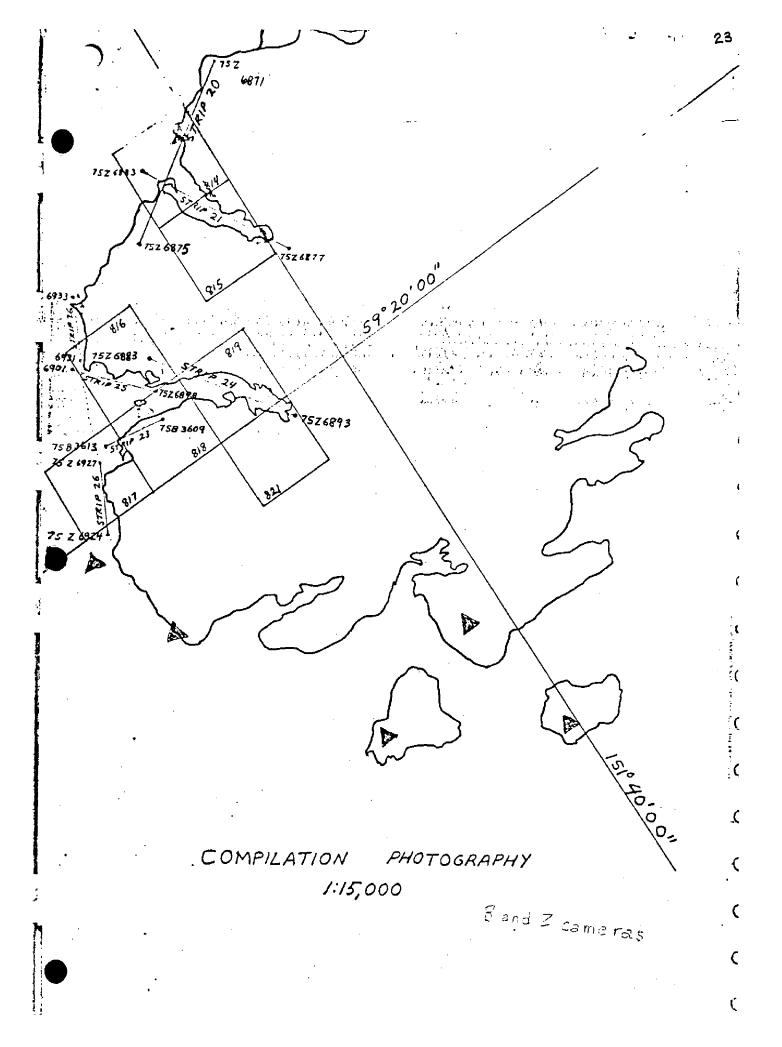
Brian Thornton

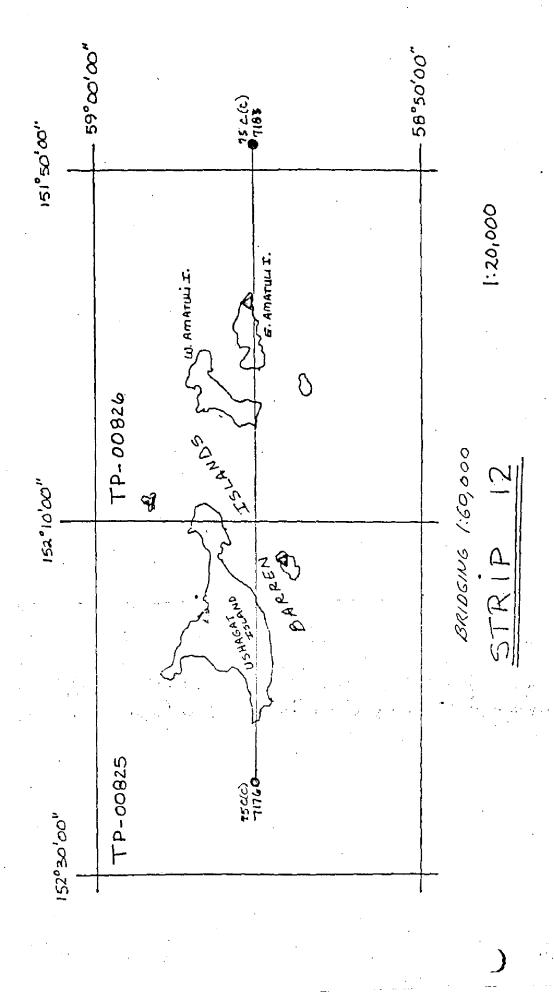
Approved and Forwarded:

Chief, Aerotriangulation Section









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·	, ,		y-error_
Strip #1	11		<i>U</i>
- er pan i mine i mine i i	219101	1.518	· 598
			.647
en america y pagestro	323100	3.269	-3.324
	203100		
			•
strip #4			
	915801	001	.006
	911101	001	
)	985805	00	003
·			
trip_#6_		· · · · · · · · · · · · · · · · · · ·	· .
·	206100	.000	-010
	964100	.001	011
	201100	606	007
	•		
strip #2_			
	992112	-3.929	-1.672
	941100	1. 088	<u>3.25</u> 3
	964100	570	913
		-1.089	030

· · · · · · · · · · · · · · · · · · ·	ed Control 11s	<u>ud</u>
istrip Ad	<u> </u>	
		_y-error
Strep#1		<i>y</i>
310100	1.092	446
10071CO	-3,443	1.765
12100		-1.021
984100	3.971	047
972/01	-3.2.78	076
986101	1.253	.431
trip#10		
<u> </u>	543	-3.777
944100	<u> </u>	4.840
206100	- 3,549	<u>-3.305</u>
207100	1.142	5.249
927101	8	-3.937
12/00	<u>645</u>	1.438
Strip_#12		
178101	3.435	
. 179100		-3.350
180101	-4.475	1.956
181100	- tal	-1.299

	yustrout.	
	y-eizer	yerra
trip#8		
941100	-L185	-2.540
244100	V.5a)	-1.094
203100	-1.481	632
203802	1.726	-2.245
trip #9		
<u>955/01</u>	<u></u>	1.133
944100	3,529	2.770
204803	118	672
204804	1.503	-1.036
204806	621	.619
		
		
•		

NOAA FORM 76-41 (6-75)				U.S NATIONAL OCEANIC AND A	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD	ĺ	
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY COASTAL	VITY Coastal Mapping
TP-00804	CM-	CM-7412	N.A. 1927	Unit, AMC, Norfolk,	VA
		AEROTRI-	COORDINATES IN FEET	GEOGRAPHIC POSITION	i i
STATION NAME	INFORMATION (Index)	POINT	ZONE 4	φ LATITUDE λ LONGITUDE	TE MARKS
	List of Con-		=χ	\$ 59 35 06.77805	
GULL, 1910	mak Bay Area Alaska	0049	η=	λ 151 19 38.03146	
	NOAA Form		±X	\$ 59 35 06.807	
GULL ISLAND LIGHT, 1975	Kachemal Bay Field Position	on	=ĥ	λ 151 19 38.170	
	NOAA Form		σχ.	φ 59 35 46.945	
POLE, 1980	Position		ή=	λ 151 15 15.831	
			=X	ф	
			= <i>f</i> i	γ	
			=χ	ф	
			ÿ=	γ	
			=X	ф	
			=ħ	γ	
			zχ	ф	
			ij≈	γ	
			-χ	Φ.	
			y =	γ.	
			χ=	Φ.	
			y=	γ	
			-χ	ф	
			<i>y=</i>	~	,
COMPUTED BY A. C. Rauck, Jr.		DATE 6/17/76	COMPUTATION CHECKED BY F. Mauldin		D&TF17/76
ı		8/17/76	Listing checked by F. Mauldin		P&F17/76
HAND PLOTTING BY L. Willams		DATE 7/13/81	HAND PLOTTING CHECKED BY I. Perkinson		DATE 7/13/81
		SUPERSEDES N	RSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE	H IS OBSOLETE.	

COMPILATION REPORT

TP-00804

31 - DELINEATION

Delineation was accomplished by stereo instrument and graphic compilation methods. The Wild B-8 stereoplotter with 1:30,000 scale 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. Supplemental tide coordinated infrared photographs for both MHW and MLLW were used to assist in delineation.

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

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot Report, 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 is \underline{l} nonfloating aid for navigation, but there are no landmarks within the mapping limits of this map.

TP-00804

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the he 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 quadrangle: Seldovia (C-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:

Fay Mauldin Cartographer March Il, 1980

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

March 22, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

<u>TP - 00804</u>

Gull Island

Ismailof Island

Kachemak Bay

Peterson Bay

Peterson Point

The Narrows

Approved by;

Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT

OPR-P114-RA-80 CM-7412 TP-00804

ALASKA

COOK INLET, EAST SIDE CAPE KASILOF TO BARREN ISLANDS

1 FIELD UNIT

JUNE 4 - JUNE 13, 1980 (JD 156) - 165)

51 METHODS

Field edit operations for TP-00804 began on June 4, 1980 (JD 156) and ended on June 13, 1980 (JD 165). Field edit began prior to and continued concurrent with hydrographic operations for survey H-9884, OPR-P114-RA-80. Hydrographic survey H-9884 included all shoreline of TP-00804.

Inspection of the shoreline was made during low water utilizing small boats. Landmarks for charts were investigated from the ship RAINIER and her small boats while in the working grounds.

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

Shorelinesand topographic notes were annotated on black and white chronopaque photographs 10 AUG 75 ER - 1518 and 1519 and/or the Master Field Edit Print.

52 ADEQUACY OF COMPILATION

The compilation of TP-00804 is adequate and complete with the additional features noted on the photographs and/or the Master Field Edit Print. All compilation questions have been answered. The mean high water line was verified by visual inspection.

53 MAP ACCURACY

The map accuracy of TP-00804 is excellent. The compiled geographic position of GULL ISLAND LIGHT 1975 differs by 0.016 meters from the May 1977 published geodetic position.

54 RECOMMENDATIONS

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

56 MISCELLANEOUS

Open communications 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 position data being deleted. If the object was not visible on the photographs it was considered as hydrographic information, and reported as such.

All triangulation stations located within the limites of TP-00804 were visited. One new traverse station, POLE 1980 was established by the RAINIER using Third Order Class I methods. Station descriptions and

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

Respectfully submitted,

Richard L. Hastings

Richard L. Hastings, SST

Approved by,

Wayne L. Mobley Captain NOAA Commanding Officer

REVIEW REPORT TP-00804 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. quadrangle: Seldovia (C-4), Alaska, scale 1:63, 360, dated 1951.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary hydrographic survey H-9884 was not available for comparison at the time of final review, July 1985.

65 - COMPARISON WITH NAUTICAL CHARTS

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

The manuscript compared well with the latest dated charts.

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.

Submitted by: Charles E. Blood J. Byrd

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

Final Reviewer

TP-00804

Approved for forwarding:

Billy H. Barnes Chief, Photogrammetric Section, AMC

Approved:

HYDROGRAPHIC PARTY
GEODETIC PARTY
PHOTO FIELD PARTY
COMPILATION ACTIVITY
FINAL REVIEWER
UALITY CONTROL & REVIEW GRP. (See reverse for responsible personnel) AFFECTED CHARTS 16640 16645 ORIGINATING ACTIVITY Triang. Rec. METHOD AND DATE OF LOCATION (See instructions on reverse side) May 1980 FIELD U.S. DEPARTMENT OF COMMERCE NONFLOATING AIDS OR COMMERCE NONFLOATING AIDS OR LAMBRARKS FOR CHARTS Jul:/1981 July 5, 1975 75E(C)0009 DATE OFFICE Is. Cape Kasilof to Barren Cook Inlet, East Side, 38,170 The following objects HAVE XX HAVE NOT been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO. | JOB NUMBER | SURVEY NUMBER | DATUM D.P. Meters LONGITUDE 5 51 0 **POSITION** N.A. 1927 LOCALITY D.M. Meters 06.807 LATITUDE 35 5 2 ٥ DESCRIPTION (Record resson for deletion of lendmark or aid to navigation. Show triangulation station names, where applicable, in parentheses) Alaska TP-00804 REPORTING UNIT (Field Park, Ship or Office) Coastal Mapping Unit (Gull Island Light, 1975) AMC, Norfolk, VA Island Light CM-7412 Gull Replaces C&GS Form 567. CX TO BE CHARTED TO BE DELETED TO BE REVISED NOAA FORM 76-40 (8-74) OPR-P114 CHARTING NAME LIGHT





	RESPONSIBLE PERSONNEL	PERSONNEL	
TYPE OF ACTION	NASH	ň	DRIGINATOR
/) - 7) {		- !	EM PHOTO FIELD PARTY EMPHOTO FIELD PARTY
OBJECTS INSPECTED FROM SEAWARD	W. Mobley		GEODETIC PARTY OTHER (Specify)
SOLITONS DETERMINED AND/OR VERIFIED	J. Talbott	7	FIELD ACTIVITY REPRESENTATIVE
	L. Williams		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	C. Blöod		XX REVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
	INSTRUCTIONS FOR ENTRIES UNDER METHOD AND DATE OF (Consult Photogrammetric Instructions No. 64,	OR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	
OFFICE IDENTIFIED AND LOCATED OBJECTS	CATED OBJECTS	ammetric	field positions** require
Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	e (including month, otograph used to bject.	entry of date of f graph use EXAMPLE:	ocation or ver nd number of t or identify t
I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbol F - Field P - Photogramme L - Located Vis - Visually V - Verified	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is angulation station is recovered Rec.' with date of recovery. EXAMPLE: Triang. Rec.	ON STATION RECOVERED mark or aid which is also a tri-station is recovered, enter 'Triang. date of recovery.
ation 5 -	Field identified Theodolite	EXAMPLE: Flang. Rec. 8-12-75	٠
1 1	Planetable Sextant	سر ش	UALLY ON PHOTOGRAPH
A. Field positions* required incation and date of EXAMPLE: F-2-6-L 8-12-75	require entry of method of of field work.	**PHOTOGRAMMETRIC FIELD POSITIONS are dependent	SITIONS are dependent
*FIELD POSITIONS are determine vations based entirely upon	OSITIONS are determined by field obser- based entirely upon ground survey methods.	by photogrammetric methods.	ds.



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 character 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-

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