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-00823	1
Job No.	
CM-7412	
Map Classification	
FINAL MAP - FIELD EDIT	ED
Type of Survey	
SHORELINE	
LOCALIT	Y
State	<u></u>
ALASKA	
General Locality COOK INLET, EAST	CIDE
CAPE KASILOF TO	
Locality	
CAPE ELIZABETH	
1975 TO 19	80
17/3 10 1/	
DECISTEDED IN A	DCHIVEC
REGISTERED IN A	KCUIAE2
DATE	

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY TP. 00823
THE TOTAL GOLARIE AND ATMOSPHERIC ADMIN.	M ORIGINAL	MAPEDITION NO. (1)
·		
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS Final
	REVISED	јов жм.<u>СМ−741</u>2
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Unit Atlantic Marine Center, Norfolk, VA	TYPE OF SURVEY	JOB PH
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS
	RESURVEY	SURVEY DATES:
Roy K. Matsushige	REVISED (19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
Aerotriangulation - North Sect Oct. 6, 1975	Horizontal Contr	ol May 6, 1975
Compilation - North Sect May 3, 1976	(Premarking)	
Compilation - Ament I Aug. 17, 1976		
Aerotriangulation - South Sect Oct. 4, 1976		
Compilation - Amend II Jan. 14,1977 Compilation - South Sect Aug 2, 1979		
Compilation - South Sect Aug 2, 1979		
	,	
II. DATUMS	r	
I. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specity)	
KX MEAN HIGH-WATER MEAN LOW-WATER		
2. VERTICAL: XX MEAN LOWER LOW-WATER		ļ
MEAN SEA LEVEL		
3. MAP PROJECTION	4.	GRID(S)
	STATE	ZONE
Transverse Mercator 5. SCALE	Alaska	ZONE
1:20,000	,	20112
III. HISTORY OF OFFICE OPERATIONS		<u> </u>
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	B. Thornton	Jan. 1977
METHOD:Analytic (South Sect) NOMARKS AND AIDS BY	J. Perrow, Jr.	Jan. 1977
2. CONTROL AND BRIDGE POINTS PLOTTED BY	B. Thornton	Jan. 1977
METHOD: Coradomat , CHECKED BY	J. Perrow, Jr. F. Margiotta	Jan. 1977 Jul. 1979
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. Neterer	Jul. 1979
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE: 1:20,000 CHECKED BY	N.A	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	F. Margiotta	Aug. 1979
CHECKED BY	C. Blood	Sept. 1979
метнор: Smooth drafted сонтоияs ву	N.A.	
and graphic CHECKED BY	N.A.	Aug. 1979
SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY	F. Margiotta C. Blood	Sept. 1979
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	C. Blood	Sept. 1979
вү	W. Connally	Jan. 1982
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		
CHECKED BY	I. Perkinson	Apr. 1982
7. COMPILATION SECTION REVIEW BY	I. Perkinson	Apr. 1982
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	I. Perkinson C. Blood/J. Byrd,	Apr. 1982 Jr. May 1985
7. COMPILATION SECTION REVIEW BY	I. Perkinson	Apr. 1982

NOAA FORM 76-36B

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

TP-00823

	COA	APILATION SOU	RCES		
1. COMPILATION PHOTOGRAPHY					···
CAMERA(S) Wild RC 8°E 152. Wild RC 10 C 152			IOTOGRAPHY END	TIME REFER	ENCE
TIDE STAGE REFERENCE PREDICTED TIDES # RX REFERENCE STATION RECORDS XX TIDE CONTROLLED PHOTOGRAF		(C) COLOR (P) PANCHRON (I) INFRARED		ZONE Alaska MERIDIAN 150th	⊠ &TANDARD
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF T	
75C(C)7218-7221#	Aug. 3, 1975	11:46	1:60,000	9.7 ft. above M	ILLW
75C(C)7189-7191#	Aug. 3,1975	10:28	1:60,000	10.6 ft. above	MLLW
75E(I)0539-0544*	Jul: 8:1975	13:55	1:30,000	14.23 ft. above	MLLW
75E(I)0572-0573*	Jul.8,1975	14:30	1:30,000	14.18 ft. above	MLLW
75E(I)0551-0553*	Jul.8,1975	14:03	1:30,000	14.19 ft. above	MLLW
75E(I)0516-0519*	Jul.8,1975	13:31	1:30,000	13.64 ft. above	MLLW
75E(I)0684-0686**	Jul.9,1975	09:25	1:30,000	0.48 ft. above	MLLW
76E(I)4347-4351**	Jun. 26, 1976	08:16	1:30,000	0.00	
76E(I)4727-4729**	Jun. 29,1976	09:45	1:30,000	1.90 ft. above	MLLW
76E(I)4365-4366**	Jun. 26, 1976	08:40	1:30,000	1.53 ft. above	MLLW
REMARKS Tide gage at Seld tions for Port Chatham #Bridge/compilation pho 2. SOURCE OF MEAN HIGH-WATER	applied to to	the infrared not on map. Po	photographs	.Port Chatham	
<pre>#*The MHW line was co l:60,000 color phot was supplemented by (ratio) photographs</pre>	ompiled from cographs usin graphic met	office inter ng stereo ins	trument met	hods. Compilati	on

3. SOURCE OF MEMICION WIXTEREN MEAN LOWER LOW-WATER LINE:

**The MLLW line was compiled graphically from the above listed tide coordinated MLLW infrared ratio photographs.

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

1			
5. FINAL JUNCTIONS			
NORTH	EAST	SOUTH	WEST
TP-00820	TP-00824	TP-00826	No survey
REMARKS			

SURVEY COPY USED SURVEY NUMBER DATE(S)

SURVEY NUMBER

DATE(S)

SURVEY COPY USED

NOAA FORM 76-36((3-72)	c ·	TP-0082	NATIONAL OCEA			
		HISTORY OF FIELD	OPERATIONS			
1. XX FIELD INSP	ECTION OPER	AATION (Premarking) 🔲 FIEL	D EDIT OPERATION			
	QP	ERATION		NAME		DATE
I. CHIEF OF FIEL	D PARTY				l	
11 011121 07 1122			R. Melby			une 1975
•	2011 7001	RECOVERED BY	R. Melby		J	Tune 1975
2. HORIZONTAL C	CONTROL	ESTABLISHED BY	None			1075
		RECOVERED BY	L. Riggers None			une 1975
. VERTICAL CON	ITROL	ESTABLISHED BY	None			
	·	PRE-MARKED OR IDENTIFIED BY	None			
•	RI	COVERED (Triangulation Stations) BY	None		-	
4. LANDMARKS AI		LOCATED (Field Methods) BY	None_			
AIDS TO NAVIG	ATION	IDENTIFIED BY	None			
		TYPE OF INVESTIGATION				
5. GEOGRAPHIC N		COMPLETE BY				
INVESTIGATION	N	SPECIFIC NAMES ONLY				
		XXNO INVESTIGATION	<u>.</u>	· · · · · · · · · · · · · · · · · · ·		
S. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	None			
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	N.A.			
II. SOURCE DATA I. HORIZONTAL C		NTIFIED	2. VERTICAL CO	NTROL IDE	NTIFIED	
Paneled			None			
PHOTO NUMBER		STATION NÂME	PHOTO NUMBER	9	TATION DESIGN	A TION
75C(C) 7221 75C(C) 7219		06 (Paneled direct) 1906 (Sub.Pt. paneled)				
3. PHOTO NUMBE	RS (Clarificati	on of details)	<u> </u>			
None						
4. LANDMARKS A	ND AIDS TO N	AVIGATION IDENTIFIED				
None			•			
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER		OBJECT NAI	ME
-						
5. GEOGRAPHIC N	NAMES:	REPORT XX NONE	6. BOUNDARY AN	D LIMITS:	REPORT	XX NONE
7. SUPPLEMENTA						
None						
. OTHER FIELD	RECORDS (Sk	otch books, etc. DO NOT list data submi	tted to the Geodesy D	ivision)		
Project		Forms 277 & 1 Form 77-5 Forms 152 (CSI cards)	3 (Tides reco	ord book	s)	

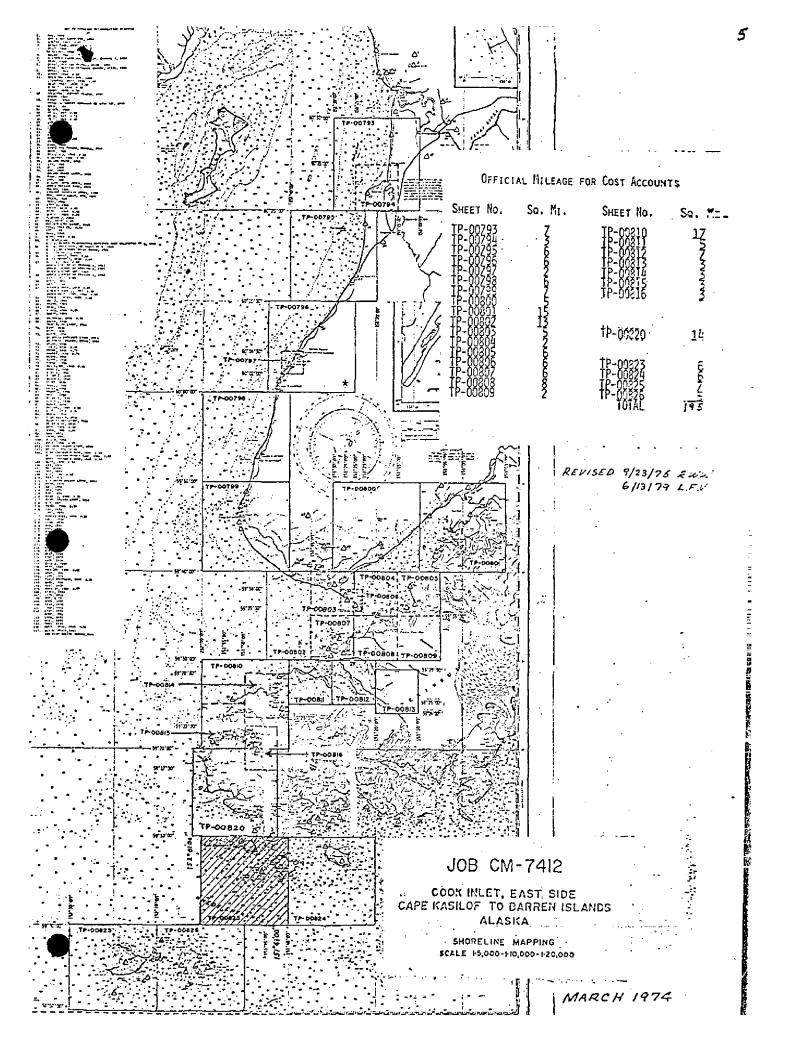
(3-72)	L		NATIONAL OCEA	NIC AND ATMOSPHERIC	
		TP-00823		NATIONA	AL OCEAN SURVE
I. FIELD INSP	ECTION OPER		LD EDIT OPERATION		
	OPE	RATION	<u></u>	NAME	DATE
1. CHIEF OF FIEL	D PARTY		A Detected	-	
		RECOVERED BY	A. Patrick V. Ross		July 1980 July 1980
2. HORIZONTAL C	CONTROL	ESTABLISHED BY			1 2017 1380
.		PRE-MARKED OR IDENTIFIED BY			
		RECOVERED BY		· · · · · · · · · · · · · · · · · · ·	
3. VERTICAL CON	ITROL	ESTABLISHED BY	None		
		PRE-MARKED OR IDENTIFIED BY			
		OVERED (Triangulation Stations) BY	3.7		
4. LANDMARKS AF	ND	LOCATED (Field Methods) BY			July 1980
AIDS TO NAVIG	ATION	IDENTIFIED BY			1
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC N		COMPLETE			
INVESTIGATION	N	SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	C. Hancock	***	July 1980
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
II. SOURCE DATA					
1. HORIZONTAL C	CONTROL IDEN	TIFIED	2. VERTICAL CO	NTROL IDENTIFIED	
N.A.			N.A.	<u></u>	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBE 76E(I)4347	RS (Clarificatio ', 4348, 4	n of details) 350, 4351, 4365, 4366,	4327, 4728, 4	729	
76E(I)0684	-0686				
CABIN	ND AIDS TO NA	VIGATION IDENTIFIED			
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
76E(I)4729	CABIN .				
		•	!		•
5. GEOGRAPHIC N	JAMES. T	REPORT NONE	6. BOUNDARY AN	D LIMITS: TREPOF	RT NONE
7. SUPPLEMENTA	<u>-</u>		Total South All	- Z 3 REPOP	XX.
N.A.	. L IIIAI Ç AND I			•	
8. OTHER FIELD Field Edit		ch books, etc. DO NOT list data subm Form 252 (fiel		livision)	
Field Edit		List of Field 1	Pôsitions (2 p	pages)	
2 Forms 76-	40				

NOAA FORM 76-36D (3-72)

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

TP-00823 RECORD OF SURVEY USE

			KECU	KD OF SURVE	1 032					
I. MANUSC	RIPT COPIES									
	Co	MPILA	TION STAGE	s			DATEMA	NUSCRI	PT FORWAR	RDED
	ATA COMPILED	ļ	DATE	RE	MARK\$		MARINE	HARTS	HYDRO SUI	PPORT
 Compile	ation complete,									
	field edit	Sen	t. 1979	Class III	Manuecn	int .	Sent 7	1979	Nov. 1	070
F0	,	- CP	<u> 4373</u>	02035 111	110110501	The	DCPC.	<u> </u>	NOV. I	212
Field e	edit applied	ļ								
compila	tion complete	Apr	il 1982	Class I M	anuscrip	t	None		April	1982
				-			mar 19	186	mar 19	286
Final F	Poutou	Marz	1985	Final Mar	,					
TINGL I	JE ATEM	May	1903	rinai mar	,	-				
		i								
	ARKS AND AIDS TO NAVIGA									
1. REPO	ORTS TO MARINE CHART DI	VISION		DATA BRANCH						
NUMBER (Pages)	CHART LETTER Number Assigned	FO	DATE RWARDED			REM	ARKS			
(Iuqes/										
1		Mar	- 1986	Landmarks	to be Ćh	arted				
		l	1986	•						
1		mar	× 1112	Nonfloatin	g Aids t	o be	charted	···		
,		İ								i
2 🗔	REPORT TO MARINE CHART	LOWIS	ION COAST	BU OT BRANCH	DATE FORW	ARDED.				
	REPORT TO AERONAUTICAL		•					RDED:		
III. FEDER	AL RECORDS CENTER DAT	'A					-	··		
1. 🔯	BRIDGING PHOTOGRAPHS;	KX	DUPLICATE	BRIDGING REPO	RT: xxcc	MPUTE	R READOU	TS,		1
	CONTROL STATION IDENTI									
3. 10X	ACCOUNT FOR EXCEPTION	eograpi IS:	iic Names Re	port) AS LISTED	IN 3EC 1 10H 1	1, 11000	- OKM 70-30	,		
4 🔲	DATA TO FEDERAL RECOR	RDS CE	NTER. DAT	E FORWARDED:					•	
IV. SURVE	Y EDITIONS (This section s				o edition is re				-	
	SURVEY NUMBER		PH .	₹		RE	TYPE OF S	URVEY	URVEV	
SECOND	DATE OF PHOTOGRAPH	(2) 1Y	DATE OF FI	ELD EDIT			MAPCL		VATE I]
EDITION				 :	□n.	□m.		v.	FINAL	_]
•	SURVEY NUMBER	+	JOB NUMBER	₹			YPE OF S	.=		
THIRD	TP	(3)	PH			REV	ISED	RES	URVEY	ļ
EDITION	DATE OF PHOTOGRAPH	17	DATE OF FI	ELD EDIT			MAP CL	_		
. <u> </u>							□ıv.		FINAL	
	SURVEY NUMBER	1	JOB NUMBER	₹		_	YPE OF S	_	·	
FOURTH	TP	_ (4)	PH	FLD EDIT		LJ REV	•	REST	JRVEY	
EDITION	DATE OF PROTUGRAPH	''	DAIL OF PI	650 E011		П	MAP CL			



6

SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-00823

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 Chugach Islands west of longitude $151^{\circ}40'00''$ and south of latitude $59^{\circ}10'00''$. This includes some shoreline of Kenai Peninsula.

Field work prior to compilation consisted of the recovery and identification of the horizontal control necessary for the aerotriangulation of the project and establishing and monitoring tide gages while the photography was being taken for the tide coordinated infrared photographs. This activity was completed in June 1976.

Photograph 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 August 1975. The RC-8 (E) camera was used for the infrared black and white 1:30,000 scale photographs taken 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 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 photo interpretation, was performed by the Coastal Mapping Unit at the Atlantic Marine Center in September 1979. Refer to the compilation report, Item #31 and NOAA Form 76-36B for specific usage of the photography.

Field edit was conducted in July and August 1980 by hydrographic personnel assigned to the NOAA ship FAIRWEATHER. Field edit for this manuscript is complete and was applied to the manuscript by the Coastal Mapping Unit, Atlantic Marine Center in April 1982.

Final review was performed at the Atlantic Marine Center in May 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-00823

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.

Photogrammetric Plot Report Cape Kasilof to Barren Islands Job CM-7412 South Art

January 1977

Job index was revised June 13,1979 Number of sheets 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 Rusifor to Barren Island. This area is covered by feven 1:20,000 scale sheets, from 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

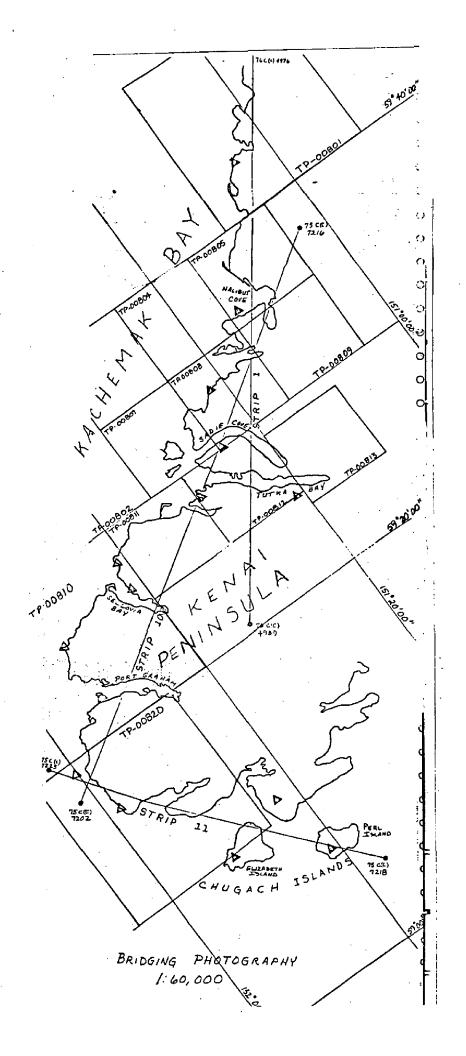
The coverage, overlap and quality of the photography was adequate for the job with the exception of the above mentioned "C" camera.

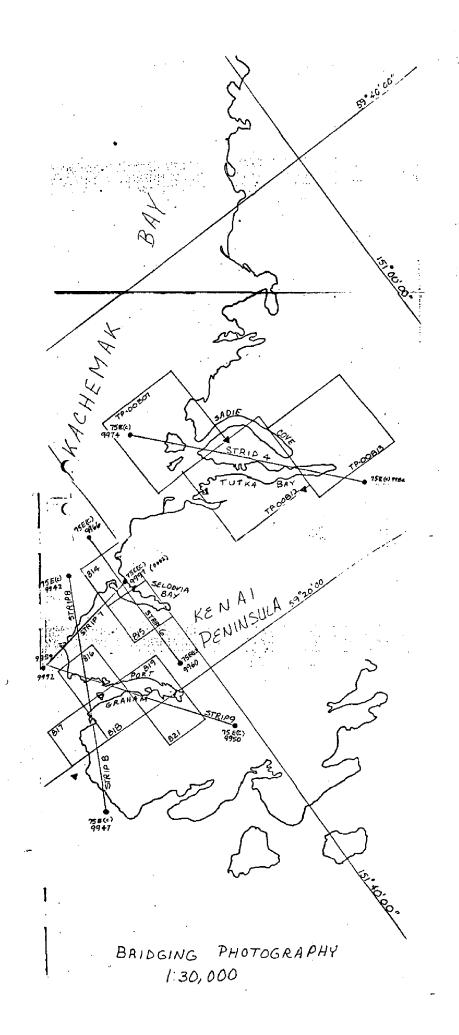
Submitted by:

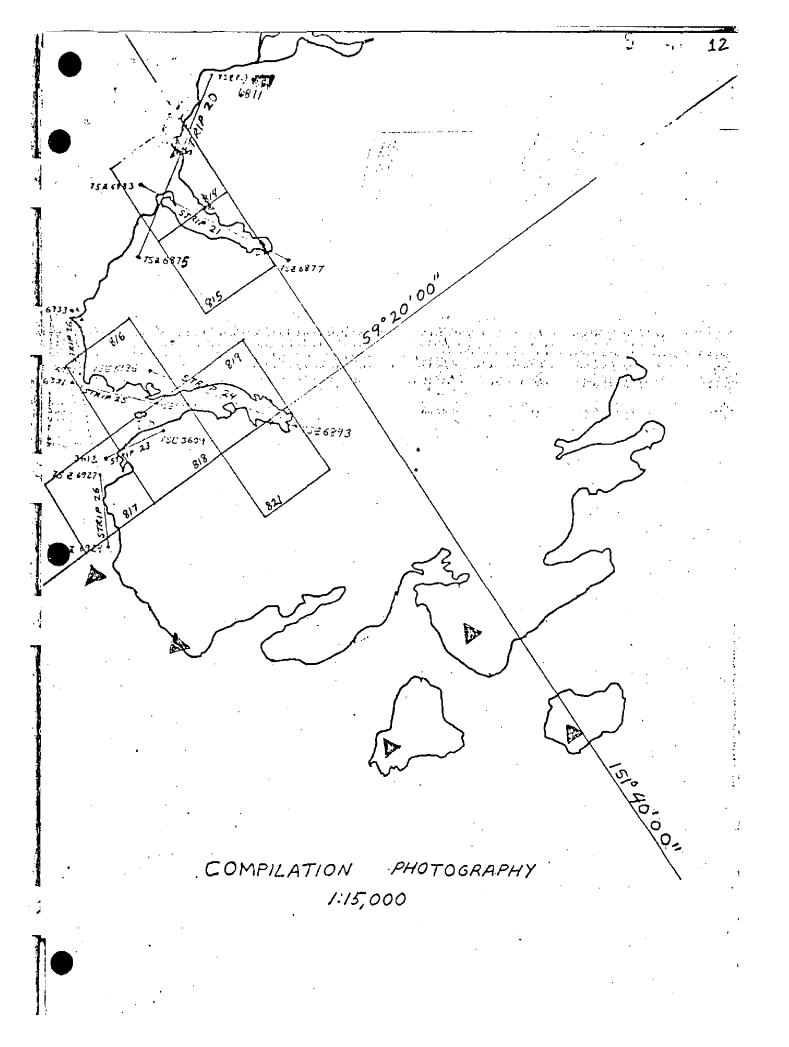
Brian Thornton

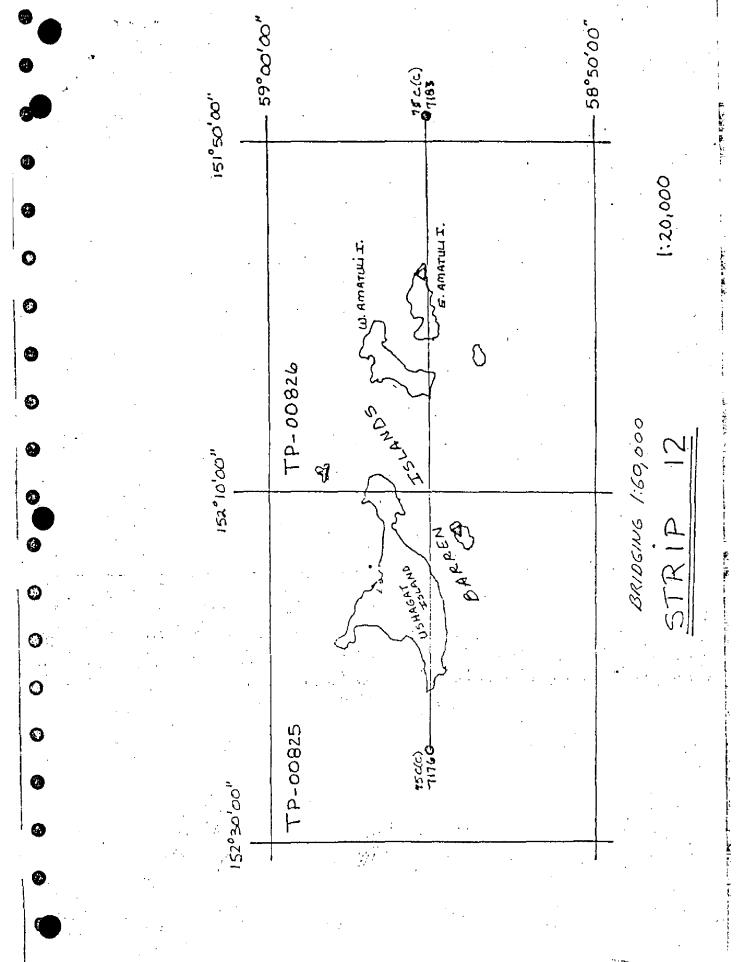
Approved and Forwarded:

Chief, Aerotriangulation Section









er strip (da	Green ment	
	+-error	y-error
Atrip # 1		
310100	1.092	446
307/co	-3,443	1.765
12/100	. 803	-1.021
984100		047
972/0/	-3.278	-1076
986101	1.253	-431
	· ·	<u> </u>
Strip#10		
<u> </u>	<u>54</u> 3	
944100	2.985	4.840
206100	- 3,549	
207100	1.142	5.249
927101	318	-3.937
12/00	845	
		·
Strip #12		
178101	3.435	2.681
. 179100	1.047	
180101	<u>-4.475</u>	1.956
181100	<u> </u>	-1.299

strip adj		,
	y-error	y-error
strip #11		
219101	1.518	.598
221100	-3.964	.647
323100		-3.324
203/00	840	2.100
1trip #4		
915801	00/	. 00%
911101	001	005
985805	001	<u> </u>
ttrip #6		· · · · · · · · · · · · · · · · · · ·
206100	.000	-010
964100	.001	011
207100	.006	007
•		
thip #7		
992112	-3.929	-1.672
941100	1. 088	<u>3,25</u> 3 _
964100	 570	
169	-1.089	

utrip #	Strys adjust	4-e12H	y error
we εcρ "π	941100	-1.185	2.540
ing the second s	77944100	<u>/.5</u> .21	-1.094
transport of the second of the	303100	-1.481	631
i.	203802	1.826:	-21245
			*
1trup #9	<u> </u>		
· · · · · · · · · · · · · · · · · · ·	955/01	5/S	1.133
	944100	3,529	2.770
· · · · · · · · · · · · · · · · · · ·	204803	118	612
	20.4804	1.503	-1.036
	204806	621	
			
·			
· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·

MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING AC	ORIGINATING ACTIVITY COASTAL IN	Mappihq
TP-00823	CM-7412		N.A. 1927	Unit, AMC,		
STATION NAME	SOURCE OF	AEROTRI- ANGULATION	COORDINATES IN FEET STATE ALASKAD	GEOGRAPHIC POSITION	REMARKS	- 4KS
	(xopul)	NUMBER	ZONE 4	λ LONGITUDE	Forward	(Back)
	Quad.59151		χ=	φ 59 07 49.216	1522.9	(333.8)
END, 1931	pg. 8	118	<i>ig</i> =	λ 151 40 59.129	940.5	(13.9)
	Quad. 59151		±X	φ 59 09 17,663	546.6	(1310.1
EGG, 1906	pg. 8	221100	η=	λ_ 151 <u>51</u> 00.626	6.60	(943.7)
	Quad. 59151		<i>=</i> χ	φ 29 07 01.11	34.3	(1822.4
HEAD, 1931	pg. 10	000112	ή=	λ 151 43 32.48	516.8	(437.9)
	Quad. 59151		=χ	φ 59 05 59.785	1850.0	(06.7)
NAG, 1931	pg. 14	000113	η=	λ 151 45 56.097	893.1	(62.1)
	Quad. 59151		=χ	\$ 59 06 25.037	774.7	(1082.0
PEARL 2, 1906	pg. 16	219100	η=	λ 151 40 19.135	304.6	(650.4)
	Quad.59151		χ=	φ 59 08 30.272	936.7	(920.0)
GET, 1931	pg. 9	000110	η=	λ 151 47 20.596	327.5	(626.5)
	Quad. 59151		Χs	φ 59 05 58.28	1803.4	(53.2)
BARE, 1931	pg. 2	143	y=	λ 151 40 55.95	890.7	(64.5)
	NOAA Form, 75	5-41	X≠ 1,869,552,53	φ	9,552.53	(447.47
PEARL 2, 1906 Sub Pt	44 pgscsent WashinOffrp	rrom 5for	<i>y</i> = 185,847.29	λ 2 13 1.32	5,847.29	(4152.7
	Quad.59151	,	=X	φ 59 09 57.402	1776.2	(80.5)
JOY, 1931	pg. 12	801	y=	λ 151 51 47.546	755,5	(197.8)
	NOAA Form 7 NOAA Form S	5-82A ignal	=X	φ 59 09 42,090	1,302.43	(554.23
) (field	position) Tape (ASCII -p114-FA-80)-OPR	η=	λ 151 40 43.856	697.05	(256.65
COMPUTED BY A. C. Rauck, Jr.		DATE :2/21/76	COMPUTATION CHECKED BY R. Minton		DATE 11/5/76	
LISTED BY A. C. Rauck, Jr.			í III.		DATE 11/5/76	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		1.	
L, Ferkinson		SUPERSEDES NO	3/02 I C. BIOOG SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	CH IS OBSOLETE.	7875	

COMPILATION REPORT

TP-00823

31 - DELINEATION

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

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

32 - CONTROL

Horizontal control was adequate. Refer to the Photogrammetric Plot 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 methods as described in item #31. Dora Reef was not visible on the photographs.

TP-00823

37 - LANDMARKS AND ALDS

There are two charted navigational aids and no charted landmarks within the mapping limits of this map. One aid was photogrammetrically located, and the other was field located during hydrographic operations.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

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

40 - HORIZONTAL AND VERTICAL ACCURACY

Refer to Item 32.

46 - COMPARISON WITH EXISTING MAPS

A comparison has been made with the U.S. Geological Survey Quadrangle: Seldovia (A-5), Alaska, scale 1:63,360, dated 1953 Seldovia (A-6), Alaska, scale 1:63,360, dated 1953.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following Nationa Ocean Survey charts:

No. 16645, scale 1:82,662, dated Mar. 13, 1976

NO. 16641, scale 1:77,062, dated Apr. 7, 1973

No. 16643, scale 1:82,662, dated Apr. 21, 1973.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

TP-00823

Submitted by:

F. Margiotta Cartographic Technician August, 1979

Approved:

Albert C. Rauck, Jr. Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP - 00823

Cape Elizabeth

Chugach Islands

Chugach Passage

Elizabeth Island

Gulf of Alaska

Kennedy Entrance.

Nagahut Rocks

Perl Island

Perl Rock

Approved by;

Charles E. Harrington Chief Geographer

Nautical Charting Division

FIELD EDIT REPORT TP-0823 Cook Inlet East Side July, 1980

Description

Elizabeth Island, mountainous and uninhabited, has an extremely rugged shoreline especially on the south side where there are numerous detached rocks. Kelp surrounds the island extending as much as 400 meters offshore. A high bluff on the south side is of landmark value. Perl Island is similar. Two isolated rocks approximately 1.2 nm offshore lie to the west between Perl Island and Nagahut Rocks. A high bluff on the west side of the island is of landmark value. On the north side where the shoreline is composed of gravel and sand beaches there exist 2 fresh water ponds, an airstrip and several summer cabins which are of landmark value. Two large reefs foul with kelp lie off the north shore of Chugach Pass. A shallow area foul with rocks extends 0.2 nm off the southwest point of the mainland. North from here along the mainland there exist several isolated rocks which lie as much as 300 meters offshore. Strong tide rips exist around Nagahut Rock, the southwest sides of Elizabeth and Perl Islands and in Chugach Passage.

Methods

Field Edit on this sheet was conducted entirely from a skiff during lower low tide except for an occasional on foot investigation, where details could not be adequately discerned from sealevel. The small settlement on the north side of Perl Island was investigated on foot. Several rocks not visible on the photos had to be located by sextant fixes. In most cases the angleman was able to occupy the feature, however due to limiting conditions it was sometimes necessary to record a fix at a position offset from the feature. Fixes were recorded in a single volume. Some fixes were rejected when the features were later identified on the photographs. On julian day 196 the isolated rock located 0.45 nm southeast of Nagahut Rocks was seen under a breaking swell. A height and time were recorded, however it was not possible to take a fix because of the strong current and large seas. On julian day 199 a hydrographic development was run over the same feature resulting in a least depth which agreed with that recorded during field edit. The position for this feature thus can be ** derived from the hydrographic records.

FIELD EDIT NOTE OPR-P114-FA-80 Southern Cook Inlet Summer, 1980

ج. ان•

> Several inadequacies in the data received from the photogrammetric office made the job of field edit exceedingly more difficult than necessary. The commencement of Field Edit on this project was delayed by 5 weeks because of the late arrival of 2 manuscripts. One stable-base copy of each photo was all that was supplied. Therefore these valuable and vulnerable cronopagues had to be taken into the field. This problem is addressed in the attached memo OA/C34:WSS. To make matters worse these photos had been marked with red ink, obscuring images along the shoreline and totally obliterating the images of some detached rocks. Compilation of the manuscripts was in some instances inadequate. Details of the mean high water line and ledges as well as some isolated rocks and reefs which are clearly visible on the photographs were overlooked. Two small islands, obvious on the photography, were completely left out during compilation. They were on TP-0816 at 59°21'10"N, 151°47'25"W and on TP-0815 at 59°21'27"N, 151°51'45"W. On TP-823 two non-existent isolated rocks were plotted well offshore where no images were visible on any of the photographs. These were at 59°09'36"N, 151°41'45"W and 59°05'57"N, 151°40'40"W. Similarly on TP-820 at 59°11'50"N, 151°45'36"W a group of non-existent rocks were plotted where no images appear on the photographs, yet only 300 meters south along the shore a group of large easily identifiable rocks was not compiled. Miscompilations such as these can confuse and mislead the field editor when trying to locate his position. Time is wasted during the valuable hours of low tide levels.

All of the field edit data has been depicted on film ozalids labled MASTER FIELD EDIT PRINT. All features shown in violet have been verified or added by the field editor. Those features marked in green are to be deleted. Features identified on the photographs were pricked or outlined and labled in violet. Correspondingly the MASTER FIELD EDIT PRINT was marked as close as possible to the actual position of theafeature and labled with all pertinent information. T-2 theodelite and sextant fixes using geodetic, photogrammetric and hydrographic signals were taken in areas where small features could not be clearly identified, where photo interpretation was difficult due to shadows on the photography, or where it was apparent that changes had occurred since the time of the photography. Some of these features were later identified on the photographs with the help of a light table and mirror stereoscope. The corresponding fixes were then rejected. All retained fixes were calculated and checked by RK 300 and then plotted on the MASTER FIELD EDIT PRINT, labled with the fix number and all of the related data. Each manuscript, except TP-810, is accompanied by a SIGNAL OVERLAY on which are plotted all of the hydrographic and photogrammetric signals.

An inspection from seaward for significant landmarks was conducted by both the field editor and the hydrographer. NOAA Forms 76-40, received from the photogrammetric office, were corrected and amended. In the case of TP-810, the NOAA Forms 76-40 which have been submitted were originated during the field edit operation.

Submitted by:

Christopher P. Hancock

Chartepher & Homock

Lt(jg)., NOAA

Approved by:

A. J. Patrick Capt., NOAA

REVIEW REPORT TP-00823 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. quadrangles: Seldovia (A-5), Alaska, scale 1:63,360, dated 1953 Seldovia (A-6), Alaska, scale 1:63,360, dated 1952.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

The contemporary survey H-9890, 1:20,000 scale, dated March 15, 1983, was compared to this manuscript.

Three rocks on the H-9890 do not agree with this manuscript; all of them are field identified.

Lat. 59°06.1', Long. 151°46.1 - photo 76 E (I) 4350 Lat. 59°06.1', Long. 151°46.3 - photo 76 E (I) 4350

Lat. 59°09.9', Long. 151°52.1 - photo 76 E (I) 4366.

65 - COMPARISON WITH NAUTICAL CHARTS

Comparisons were made with the following charts: Chart 16645, scale 1:82,662, dated July 30, 1983 NOS chart 16606, scale 1:77,062, dated Oct. 20, 1979 C & GS chart 8532, scale 1:77,062, dated April 7, 1973 (These charts are representative of the same area.)

A comparison between the earlier dated April 1973 chart 8532, with the latest dated charts indicate that two offshore rocks were added to current charts from the unreviewed Class III Chart Maintenance Print submitted to Marine Charts September 14, 1979. The intended purpose of showing these offshore rocks on the 1979 Chart Maintenance Print was to advise the Hydrographer of potential hazard. The Hydrographer was expected to determine whether or not the rocks existed. It was never intended for charting purposes because the photointerpretation of the rocks did not render positive identification. The field investigation of the rocks revealed them to be nonexistent by the field editor at the time the hydrography was performed, July and August 1980. The nonexistent rocks were removed from the Final Map. These and other recommended changes are annotated on the Final Map Chart Maintenance Print.

TP-00823

The field editor and hydrographic survey H-9890 have both shown an uncharted offshore rock. Its position is Lat. $59^{\circ}09.6^{\circ}$, Long. $151^{\circ}53.6^{\circ}$, and is field identified on photo 76 E (I) 4347.

The Nautical Charts show the Navigation Aid, Cape Elizabeth Light, north of the position on this map.

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. By

Charles Blood/James L. Byrd, Jr.

Final Reviewers

Approved for forwarding,

Pilly H Parras

Chief, Photogrammetric Section, AMC

Approyed,

Chief, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

(8-74)	Q+-		1	NAT	IONAL OCE	ANIC AND A	. DEPARTM TMOSPHER	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY HYDROGRAPHIC PARTY	CTIVITY
Replaces C&GS Form 567.		NONFLOAT	NONFLOATING AIDS OR EXHIBITARIES FOR CHARTS	HOW ARKS	FOR CHA	RTS			GEODETIC PARTY	. <u>}</u>
XXTO BE CHARTED		REPORTING UNIT (Field Party, Ship or Office)	STATE		LOCALITY			DATE	XXCOMPILATION ACTIVITY	V TY
TO BE DELETED		Coastal Mapping Un AMC, Norfolk, VA	Unit Alaska		Cook Inlet East	let Eas	E Side	5 Jan 82	QUALITY CONTROL & REVIEW GRP.	REVIEW GRP.
The following objects	e cts	VE NOT	been inspected from seaward to determine their value as landmarks	saward to de	termine thei	r value as	landmarks.	 	(See reverse for responsible personnel)	ible personnel)
OPR PROJECT NO.	BOC -		JRVEY NUMBER	DATCM N	N.A. 1927			METHOD AND DATE OF LOCATION	E OF LOCATION	
OPR-P114		CM-7412	TP-00823		POSITION	NO		(See instructions on reverse side)	on reverse side)	CHARTS
		DESCRIPTION		LATITUDE	rube	LONGITUDE	UDE			AFFECTED
CHARTING	Record reason for a	(Record reason for defetion of landmark or aid to navigation. Show triangulation station names, where applicable, in parenti	Record resson for deletion of landmark or sid to navigstion. Show triangulation station names, where applicable, in parentheses)	, ,	// D.M.Meters	/ 0	// D.P. Meters	OFFICE	FIELD	
LIGHT	Cape Elizabeth	eth Light		5908	59, 79	151 52	28.81	75C(C)7221 Aug. 3,1975	F-2-6-L July 1980	16640 16645
LIGHT	Perl Rock Light	ight		59 05	26.27	151 41	32.58	Not Visible	F-2-6-L Jüly 1980	16640 16645
-						•				
									,	
		·								

,

FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey methods	A. Field positions require entry o location and date of field work. EXAMPLE: F-2-6-L 8-12-75	tion 7 -	EW POSITION DETERMINED nter the applicable dat P - Field Vis - Located Vis - Verified - Triangulation 5 - Traverse 6 -	OFFICE IDENTIFIED AND LOCATED OBJECTS i. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 8-12-75		FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	FUSITIONS DETERMINED AND/OR VERIFIED	OBJECTS INSPECTED FROM SEAWARD	TYPE OF ACTION	
d by field obser- round survey methods.	f method of	Planetable Sextant	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified 6 - Theodolite	month,	INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE O (Consult Photogrammetric Instructions No. 64,	C. Blood	C. Hancock W. Connally	A. Patrick	NAME	RESPONSIBLE PERSONNEL
	EXAMPLE: V-VIS. 8-12-75 **PHOTOGRAMMETRIC FIELD PO: entirely, or in part, upo	† <	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	FIELD (Cont'd) B. Photogrammetric field entry of method of loc date of field work and graph used to locate of EXAMPLE: P-8-V 8-12-75 74L(C)2982	ETHOD AND DATE OF LOCATION'					ERSONNEL
ds.	9-VIS. 8-12-75 IC FIELD POSITIONS are dependent In part, upon control established	UALLY ON PHOTOGRAPH	<pre>ION.RECOVERED aid which is also a tri- is recovered, enter 'Triang. recovery. Rec.</pre>	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		EXAMEVIEWER QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE	FIELD ACTIVITY REPRESENTATIVE	PHOTO FIELD PARTY CX HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specify)	ORIGINATOR	

NOAA FORM 76-40 (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

NOAA FORM 76-40 (8-74)				I V	TIONAL OCE	U. EANIC AND	S. DEPARTMI ATMOSPHERI	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ORIGINATING ACTIVITY	CTIVITY
Replaces C&GS Form 567.		THEXAU		JMARKS	LOK CH	AKIS			COREDIC PARTY	<u> </u>
XXTO BE CHARTED TO BE REVISED	REPORTING UNIT (Field Perty, Ship or Office) Coastal Mapping Unit		STATE		LOCALITY			DATE	SECOMPILATION ACTIVITY	γ 1 1 1 1 1 1 1 1 1 1
TO BE DELETED	AMC, Norfolk, VA		Alaska		Cook I	Cook Inlet East Side	st Side	5 Jan 82	COAST PILOT BRANCH	L & REVIEW OF
The following objects		been inspe	been inspected from seaward to determine their value as landmarks.	ward to de	termine the	ir value as	landmarks.		(See reverse for responsible personnel)	ible personnel)
DPR PROJECT NO.		SURVEY NUI	MBER	DATUM						
				N.A.	ᆌ	}		METHOD AND DATE OF LOCATION	TE OF LOCATION	
OPR-P114	CM-7412	TP-00823	23		POSITION	TION		(See Instructions	(See instructions on reverse side)	CHARTS
	DESCRIPTION	7		LATITUDE	TUDE	LONGITUDE	TUDE			AFFECTED
NAME Show	Record resson for deletion of landmark or aid to nevigation. Show triangulation station names, where applicable, in parentheses)	t or aid to nav	vigation. in parenthosos)	۰	D.M. Meters	•	D.P. Meters	OFFICE	1	
					33.7		10.0		P-5-L	
CABIN				59 07		151 42			July 1980 76E(I)4729	16640 16645
			,			J				
			•			-				
	-									
	!		!					•		
,										
-						<u></u>				
				,						
	•						1			
				:						
				!						
			-	; ;					,	
						1				

TYPE OF ACTION OBJECTS INSPECTED FROM SEAWARD FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	A. Patrick C. Hancock W. Connally C. Blood C. Blood C. Blood		ORIGINATOR PHOTO FIELD PARTY HYDROGRAPHIC PARTY GEODETIC PARTY OTHER (Specity) FIELD ACTIVITY REPRESENTATIVE OFFICE ACTIVITY REPRESENTATIVE AND REVIEWER OUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
FUSITIONS DETERMINED AND/OR VERIFIED			FIELD ACTIV
õ	C, Blood		REPRESE REPRESE
,	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,	
	(Consumer rhorogrammer	TICID STRUCTIONS NO. 04,	
OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the bject. EXAMPLE: 75E(C)6042 FIELD FIELD	ATED OBJECTS (including month, tograph used to bject.	B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982	etric field positions** require sthod of location or verification, eld work and number of the phototo locate or identify the object. 8-12-75 8-12-75 12-75
EW POSITION DETERMINED nter the applicable dat - Field P - Located Vis - Verified - Triangulation 5 -	NED OR VERIFIED data by symbols as follows: P - Photogrammetric Vis - Visually 5 - Field identified		ION RECOVERED aid which is is recovered recovery.
1 - Triangulation 5 - F 2 - Traverse 6 - 1 3 - Intersection 7 - F 4 - Resection 8 - 9	Field identified Theodolite Planetable Sextant	. <≤ _	JALLY ON F
sitions* and date	require entry of method of e of field work.	EXAMPLE: V-Vis. 8-12-75	
EXAMPLE: F-2-6-L 8-12-75		**PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established	FIELD POSITIONS are dependent part, upon control establishe
*FIELD POSITIONS are determined by field obser- vations based entirely upon ground survey meth	ed by field obser- ground survey methods.	by photogrammetric methods.	is.

NOAA FORM 76-40 (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 chamber 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 Ra

CHART	DATE	CARTOGRAPHER	REMARKS
	_	Î .	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		<u> </u>	Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			
			Full Part Before After Verification Review Inspection Signed Via
		1	Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Venification Review Inspection Signed Vis
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			full Part Before After Verification Review Inspection Signed Via
			Rawing No.
			all Dan Defended at 18th at December 21 and a second
			ull Part Before After Verification Review Inspection Signed Vin
			
	}		
 -			
_	 		· · · · · · · · · · · · · · · · · · ·
			

