## NOAA FORM 76-35

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

# DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED
Map No. Edition No.
TP-01149 1
Job No.
СМ-8200
Map Classification
FINAL CLASS III
Type of Survey SHORELINE
LOCALITY
State
ALASKA
General Locality
CAPE KILOKAK TO CAPE KUMLIK
Locality AGRIPINA BAY
<b>19</b> 82 <b>TO 19</b> 83
REGISTERED IN ARCHIVES
DATE

NOAA FORM 76-36A			
(3-72) NATIONAL	U. S. DEPARTMENT OF COMMERCE OCEANIC AND ATMOSPHERIC ADMIN	TYPE OF SURVEY	SURVEY TF- 01149
		XX ORIGINAL	MAPEDITION NO. (1)
DESCRIPTIVE REF	ORT - DATA RECORD	RESURVEY	MAP CLASS III Final
		REVISED	лов <b>ЖЖ</b> - <u>СМ-820/0/</u>
PHOTOGRAMMETRIC OFFICE		LAST PRECES	DING MAP EDITION
Pacific Marine Center	r	TYPE OF SURVEY	<del></del>
Seattle, Washington		D ORIGINAL	JOB PH
OFFICER-IN-CHARGE		RESURVEY	SURVEY DATES:
David W. Yeager		REVISED :	19TO 19
I. INSTRUCTIONS DATED			· —
	FFICE		PIE
		4	FIELD
Aerotriangulation Office	Feb. 15, 1984 July 24, 1984	Field (Change 1)	Feb. 5, 1982 May 21, 1982
II. DATUMS			
1. HORIZONTAL:	X 1927 NORTH AMERICAN	OTHER (Specify)	
2. VERTICAL:	(X) MEAN HIGH-WATER  MEAN LOW-WATER  X) MEAN LOWER LOW-WATER  MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION		4.	GRID(S)
Transverse Mercator		state Alaska	zone 6
5. SCALE		STATE	ZONE
1:24, ddd			
III. HISTORY OF OFFICE OPERA	rions		
	ATIONS	NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	S. Solbeck	April 1984
2. CONTROL AND BRIDGE POINT	LANDMARKS AND AIDS BY	D. Norman	April 1984
METHOD: Calcomp 718	S PLOTTED BY	S. Solbeck	April 1984
3. STEREOSCOPIC INSTRUMENT		D. Norman	April 1984
COMPILATION	PLANIMETRY BY CHECKED BY	D. Holeski J. Minton	July 1984 July 1984
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	July 1984
5CALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	D. Holeski	Oct. 1984
بسم	CHECKED BY	J. Minton	Oct. 1984
METHOD: SMOOth drafte	d and graphiccontours by	N.A.	
MLLW line	CHECKED BY	N.A.	
scale: 1:20,000	HYDRO SUPPORT DATA BY	N.A.	
5. OFFICE INSPECTION PRIOR TO	CHECKED BY  FIELD EDIT BY	N.A.	
6. APPLICATION OF FIELD EDIT	DATA BY	N.A.	
7. COMPILATION SECTION REVIE	W (T) ORG. TIT	N.A.	
8. FINAL REVIEW Class III	W Class III BY BY	J. Minton L. O. Neterer, Jr.	July 1985 Aug. 1985
9. DATA FORWARDED TO PHOTO			
10. DATA EXAMINED IN PHOTOGRA		P. Dempsey	
11. MAP REGISTERED - COASTAL	SURVEY SECTION BY	E. DAUGHERTY	Jan 1986 FEB 1986
NOAA FORM 78-36A SI	PERSEDES FORM C&GS 181 SERIES		1, 5/7, 7/8/5

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

			COL	TP-0: I <b>TAJIPN</b>		IDCEC		N	ATIONAL	OCEAN SURVEY
		<del></del>	Cor	WEILAIN	JN 300	IKCE3				
1. COMPILATION PE										
Wild RC 10 "E	3"	th = 1	152.74 mm)	, TYP		HOTOGRAPHY END	L		IE REFER	ENCE
XXPREDICTED TID				(0) 00	LOR		zo	NE		
REFERENCE STA		ROS		(P) PA	NCHRO	MATIC	<u> </u>	Alask	a	STANDARD
TIDE CONTROLL				(I) IN	FRARED		ME	RIDIANO 150	W	DAYLIGHT
NUMBER AN	DTYPE		DATE	TIM	E	SCALE			AGE OF T	IDE
82B(C)6430 an 83B(T)5655 th	id 6435 iru 5660	Ju Au	il. 19,1982 ig. 26,1983	10:5 9:1	i4 :4	1:50,00 1:50,00	0 6 0 0	.6 ft.; .0 ft.	above l above l above l	MLLW MLLW MLLW
REMARKS Tide levels the referenc	were cal	lculat	ed for And	chorage Water i	Bay :	subordina feet abo	te sta	ation u	sing Ko	odiak as
2. SOURCE OF MEA	(C) 6357 and 6358 (C) 6430 and 6435 (D) 6430 and 6435 (D) 6430 and 6435 (D) 655 thru 5660 (D) 655 thru 5660 (D) 6569 thru 5693 (D) 6592 thru 5693 (D) 6592 thru 5693 (D) 6592 thru 5693 (D) 6593 (D) 6593 (D) 6594 (D) 6593									
The Mean Hig photographs	h Water listed a	Line above.	was compil	led on	a Wil	d B-8 ste	reoplo	otter u	sing th	e color
3. SOURCE OF MEAN	N LOW-WATI	ER OR MI	AN LOWER LO	W-WATER	LINE:			· -		
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4. CONTEMPORARY	HYDROGRA	PHIC SU	RVEYS (List or	nly those si	uvevs th	at Are sources f	'az phatas	isemmetels	survou into	emetion )
SURVEY NUMBER	DATE(S)		SURVEY COP			Y NUMBER			,	
			1	. 0325	JUNVE	, wompek	DATE	))	SURVEY	COPY USED
5. FINAL JUNCTION	<u> </u>	<del></del>			<u> </u>	<u></u>			<u> </u>	
NORTH CM 7607	<u>-                                      </u>	EAST			SOUTH			WEST		
TP-00717		_ N	lo Survey			D01150		1	mn ori	, o
REMARKS		1E	· Darvey		<u> </u>	P-01153			TP-011	+0

NOAA FORM 76-36 (3-72)		TP-01149 HISTORY OF FIELD		AND ATMOSPHERIC	NT OF COMMERCE ADMINISTRATION AL OCEAN SURVEY
I. T FIELD INSP	ECTION OP	eration (premarking)	D EDIT OPERATION	<u> </u>	
		PERATION	<del>T = -</del>	NAME	DATE
l. CHIEF OF FIEL	LD PARTY		D M-11		
HISTORY OF FIELD OPERATIONS  I. X FIELD INSPECTION OPERATION (premarking) FIELD EDIT OPERATION  OPERATION NAME DATE  I. CHIEF OF FIELD PARTY R. Melby June 1982  RECOVERED BY L. Riggers June 1982  PRE-MARKED OR IDENTIFIED BY L. Riggers June 1982  RECOVERED BY N.A.  PRE-MARKED OR IDENTIFIED BY N.A.					
3. VERTICAL CON	NTROL	ESTABLISHED BY	N.A.		
		PRE-MARKED OR IDENTIFIED BY	N.A.		
		RECOVERED (Triangulation Stations) BY	None		
4. LANDMARKS AS AIDS TO NAVIG		LOCATED (Field Methods) BY	None		
		TYPE OF INVESTIGATION	None		
5. GEOGRAPHIC N	NAMEC	COMPLETE			
INVESTIGATION		SPECIFIC NAMES ONLY			[
		X NO INVESTIGATION			
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None	<u> </u>	
7. BOUNDARIES A	ND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
II. SOURCE DATA					
1. HORIZONTAL C	CONTROL IC	ENTIFIED and paneled		NTROL IDENTIFIED	
	<u> </u>		N.A.		<u> </u>
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION DESI	GNA TION
	LAGOON PORT,	<b>ւ, 19կ</b> կ 19կկ			
3. PHOTO NUMBE	RS (Clarifica	ation of details)	<u> </u>		
None	(012111100	inon or dolumby			
4. LANDMARKS AL	ND AIDS TO	NAVIGATION IDENTIFIED			
None					
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJECT N	IAME
5. GEOGRAPHIC N	IAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPOR	T X NONE
7. SUPPLEMENTA	L MAPS AND				· LAL HORE
None					
8. OTHER FIELD	RECORDS (S	ketch books, etc. DO NOT list deta submit	ted to the Geodesy Di	ivision)	. –
Field Ope preselect	rations ed photo	Report and NOAA Forms 76- - hydro stations.	53 for panele	ed control, and	

NOAA FORM 76-36D

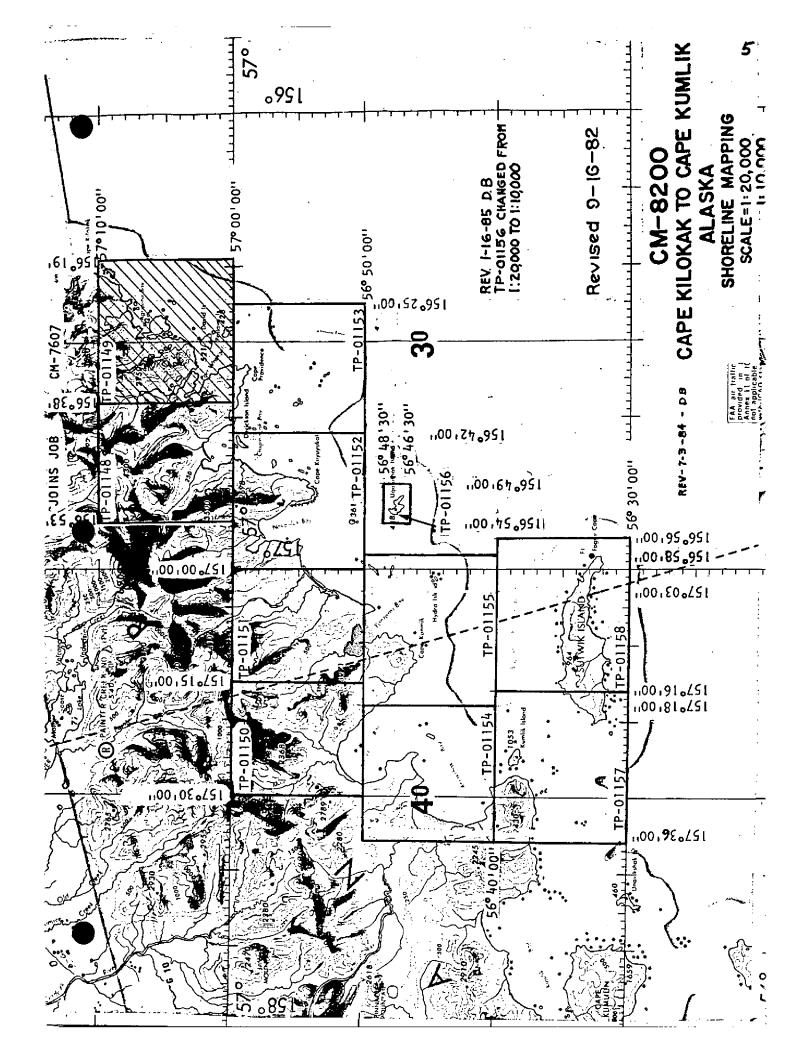
(3-72)

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

TP-01149

	Reviewed August 1985 Final Class III Map 14/12/85 16/12/85					
I. MANUSCR	IPT COPIES					
<u> </u>	Cı	OMPILATION STAGE	s		DATE MANUSC	RIPT FORWARDED
0/	ATA COMPILED	DATE	RE	MARKS	MARINE CHART	S HYDRO SUPPORT
Class II	I Compidation	May 1985	ľ		er	
Class II complete		July 1985	Class III	Manuscript		
Final Reviewed		August 1985	Final Cla	ss III Map	14/2/85	14/12/85
		1101				
1. REPOI		DIVISION, NAUTICAL	DATA BRANCH			<del></del>
NUMBER	August 1985 Final Class III Map 14/14/5 14/14/5  LANDMARKS AND AIDS TO NAVIGATION NOTE  1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH  UMBER NUMBER ASSIGNED FORWARDED REMARKS  2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:  3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:  FEDERAL RECORDS CENTER DATA  1. XX BRIDGING PHOTOGRAPHS; XX DUPLICATE BRIDGING REPORT; XX COMPUTER READOUTS.					
	CHART LETTER NUMBER ASSIGNED FORWARDED REMARKS  2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED:  3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED:  FEDERAL RECORDS CENTER DATA  1. XX BRIDGING PHOTOGRAPHS; XX DUPLICATE BRIDGING REPORT; XX COMPUTER READOUTS.					
2. RI						
3. 🗌 RE						
III. FEDERA	L RECORDS CENTER DA	TA				
	<b>-</b>		_	_		
	REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: DERAL RECORDS CENTER DATA  BRIDGING PHOTOGRAPHS; XX DUPLICATE BRIDGING REPORT; XX COMPUTER READOUTS. CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.					
VA	CCOUNT FOR EXCEPTIO	NS:	post) Na Ela ( E a )	in seation it, noan	70-30C.	
4 🔲 D	ATA TO FEDERAL RECO	RDS CENTER. DAT	E FORWARDED:			<del></del>
IV. SURVEY	EDITIONS (This section			p edition is registered	i)	
	SURVEY NUMBER	JOB NUMBEI			TYPE OF SURVE	
SECOND	TP	(2) PH		U NE		ESURVEY
EDITION		DATE OF FI		On. Om.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBER	₹	l	TYPE OF SURVE	
THIRD	TP					ESURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT		MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	₹	l <u> </u>	TYPE OF SURVEY	
FOURTH	тр.			∏ RE	VISED RE	SÚRVĖY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FI	ELD EDIT		MAP CLASS □IV. □V.	□ final

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# SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

#### TP-01149

This 1:20,000 scale shoreline map is one of eleven maps that comprise project CM-8200 Cape Kilokak to Cape Kumlik, Alaska.

This project encompasses Cape Kilokak, Alaska latitude 57°10'00" south to Cape Kumlik, Alaska latitude 56°30'00". This includes Sutwik Island.

Photographic coverage was provided in July 1982 with color film at 1:50,000 scale and in August 1983 with black and white infrared film at 1:50,000 scale. The Wild RC-10 "B" camera (focal length 152.74 mm) was used for all photography.

Field work prior to compilation was accomplished in June 1982. It involved the identification of the horizontal control by pre-marking techniques to meet aerotriangulation requirements.

Analytic aerotriangulation was performed at the Washington Science Center in April 1984.

Compilation was performed at the Pacific Marine Center from office interpretation of the 1982 and 1983 photography in July 1985.

Final Review was performed at the Atlantic Marine Center in August 1985. This map is to be registered as Final Class III map.

This Descriptive Report contains all pertinent information used to compile this final map.

The original base map and all pertinent data were forwarded to the Washington Science Center for final registration.



#### U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Pacific Marine Center 1801 Fairview Avenue East Seattle, Washington 98102

August 10, 1982

CPM133/RBM

T0:

C3415 - National Ocean Survey

FROM:

CPM133 - Pacific Photo Party

SUBJECT: Field Operations Report - Project CM-8200, Cape Kilokak to Cape

Kumlik, Alaska, Shoreline Mapping dated February 5, 1982

This shoreline mapping project was undertaken by the Pacific Marine Center Photogrammetric Party during the month of June 1982.

The purpose of the field project was to place panels on selected, horizontal control stations, prior to the scheduled, aerial photography.

Each of the selected stations were paneled as per project instructions.

Additional points were paneled to allow their positioning during the aerotriangulation and monumented to permit future recovery. These points are designated as "PR" Points. "PR" numbers less than 50 are marked with a P-K nail through an aluminum washer, with the point designation stamped on it, and driven into the bare rock, such as PR 10 1981. Numbers above 50 were marked with a length of 3/4" thin-wall conduit pipe, with the point designation stamped on the side of the pipe, such as PR 62 1982 and driven in the ground. A copy of a chart with the approximate location of these points will be included with the field data. Control Station Identification, Form 76-53, was filled out for each horizontal control station or point paneled.

Transportation was by a NOAA helicopter, based out of Port Heiden, Alaska, and Wide Bay, Alaska, with support by the NOAA Ship FAIRWEATHER.

Where stations were missing, new horizontal control was established by Third-order, Class I methods.

A problem developed with the present adjustment of the horizontal control in the area of Sutwik Island. NGS headquarters has been notified of this problem and will probably readjust the existing horizontal control in this area. All field computations are based on the old 1948 adjustment. Station SHANE 1982 was computed on this older adjustment also. Copies of the field observations by the NOAA Ship FAIRWEATHER are included to permit an interim position to be computed for SHANE.

Prior to any aerotriangulation, the National Geodetic Survey headquarters should be contacted (C131, McKay) to determine, if the final adjustment of the horizontal control in/the project area has been accomplished.

The horizontal control has been transmitted to NGS headquarters via the telephone data terminal. Again, all computations and positions are based on the old 1948 adjustment to permit consistency of data.

Respectfully Submitted,

Robert B. Melby Chief, PMC Photo Party



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration NATIONAL OCEAN SURVEY Pacific Marine Center

1801 Fairview Avenue East Seattle, Washington 98102

August 10, 1982

CPM133/RBM

TO:

C174 - National Ocean Survey

FROM:

CPM133 - Pacific Photo Party

SUBJECT: Field Report, Cape Kilokak to Cape Kumlik, Alaska

Project CM-8200, TSN No: 315 thru 365

Authority: Project Instructions, Field - Job CM-8200, Cape Kilokak to Cape Kumlik, Alaska, Shoreline Mapping dated Febnuary 5, 1982.

General: The project is along a section of the southeast shoreline of the Alaska Peninsula, Shelikof Strait, Alaska. The main purpose of the project was to premark horizontal control stations, priod to scheduled aerial photography. The supplemental, horizontal control stations that were established by the field party, were to augment the existing control or to replace missing stations.

Terrain: The area is a barren, rainy, windswept coastline of the Alaska Peninsula, devoid of permanent human habitations or trees.

Personnel: Two employees of the NGS Mark Maintenance Program, one member of the Pacific Photo Party, and one Junior officer of the NOAA Ship FAIRWEATHER. performed the field functions.

Transportation: Transportation was accomplished by a NOAA helicopter with support from the NOAA Ship FAIRWEATHER.

Equipment: 2 Wild T-2 theodolites

1 Hewlett-Packard, Model 3808A EDM Instrument

2 Tellurometers Model CA-1000 1 0.5. Meter, Mirror Bar 2 K&E Retrodirective Prisms

Various tripods, signal poles, etc.

Field Methods: Third-order traverse methods were employed by the field party.

Computations: The field computations were performed with Hewlett-Packard hand held and desk calculators, and satisfactory results were obtained.

A problem developed during the field observations at statio KUMLIK 1925. The field observed, check angle, between BLU 1925 and SUT 1925, failed to agree by more than 20 seconds using the most recently published horizontal positions. (Adjustment of Nov 1976 (G-15838)). By reverting to the old lithograph, Geographic Positions, Vol. V, pages 35 and 81, Revised 6/10/48,



a satisfactory check angle was obtained. There appears to be a problem with the NOV 1976 readjustment, as the horizontal angle produced by inverses worked between KUMLIK to BLU and KUMLIK to SUT, using both the old and the 1976 adjustments, failed to agree by about 20 seconds. There appears a possible problem of rotation and an uneven lateral shift in the 1976 adjustment.

The NGS headquarters were alerted to the possible discrepancies, and stated that the final disposition of the adjustment in the area of Sutwik Island would not be finalized, until the field records of this project, are submitted to do a further comparison of observations at station KUMLIK, involving BLU and SUT.

All the positions used and transmitted through the telephone data terminal are the "old" Geographic Positions, to allow the field data to be consistent throughout, until the final horizontal control adjustment is made.

Records: All the field data was entered and processed through the NGS data telephone terminal.

Respectfully Submitted,

R. B. Melby Chief, Pacific Photo Party

# PHOTOGRAMMETRIC PLOT REPORT Cape Kilokak to Cape Kumlik, Alaska CM-8200 April 1984

#### AREA COVERED

The area covered by this report is the eastern shoreline of the Alaskan Peninsula, from Cape Kumlik, north to Cape Kilokak. The area is covered by eleven 1:20,000 scale manuscripts (TP-01148 through TP-01158).

#### METHOD

Seven strips of 1:50,000 scale color photographs and one strip of 1:12,000 scale color photographs (TP-01156) were bridged by Standard Analytic Aerotriangulation Methods. The horizontal control was premarked with positions being determined on a revised 1948 adjustment (see Field Report). Tie points were needed to supplement the premarked horizontal stations to control three of the strips. Tie points were also used to ensure the adequate junctioning between adjacent bridging strips.

The 1:50,000 scale bridging photographs provided two additional functions: one, to locate and identify a series of premarked hydrographic panels which are to be used in future hydrographic surveys in this area; the other being to provide ratio values for the 1:30,000 scale color compilation photographs and all of the 1:50,000 scale photographs used in the project.

Ratio values were determined for the bridging photographs, 1:30,000 scale color, and the black-and-white infrared photographs that are to be used for delineating MLLW and MHW. Ratios of the bridging and the MLLW photographs were ordered.

The positions of nineteen Hydrographic Control Stations were determined. All were measured on the 1:50,000 scale bridging photography. The panels of three Hydrographic Control Stations could not be identified and, therefore, were not positioned.

The manuscripts were plotted on the Calcomp 718 Plotter using the Alaska State Plane Coordinate System, Zone 6.

#### ADEQUACY OF CONTROL

Of the control provided, all held within the National Standards of Map Accuracy, except for station Goon, 1945. This station was paneled direct, but could not be held closer than 15 feet in X and 30 feet in Y. Upon completion of the photo mission, the field party did not return to verify that the panels, which had been set in place one month prior, had

remained in tact. station Goon, along with other paneled stations, did not appear on the photographs as sketched by the field party. This office is assuming that the panel marking station Goon had moved prior to being photographed. It was not held in the adjustment.

Except for station Goon, 1945, the control provided, proved to be adequate for completion of the project. Tie points were required in some areas to supply necessary horizontal control.

#### SUPPLEMENTAL DATA

USGS quardrangles were used to provide vertical control for the project.

Nautical Charts were used to locate aids and landmarks.

#### **PHOTOGRAPHY**

The coverage, overlap, and quality of the photographs proved adequate for completion of the project.

Stephen H. Solbec

Approved and Forwarded:

Don O. Norma

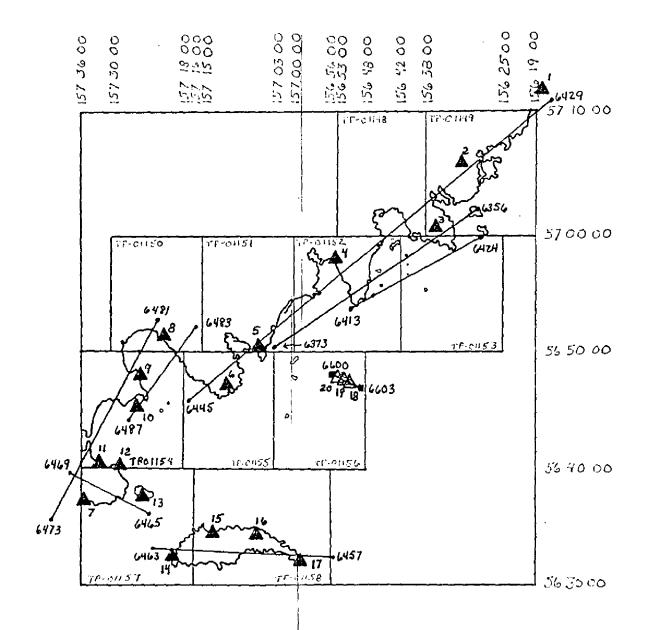
Don O. Norman

Chief, Aerotriangulation Unit

## CID-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

#### BRIDGING PHOTOGRAPHS

- 82B(c) 1:50000
- # 82B(c) 1:12000
- ▲ HORIZONTAL CONTROL

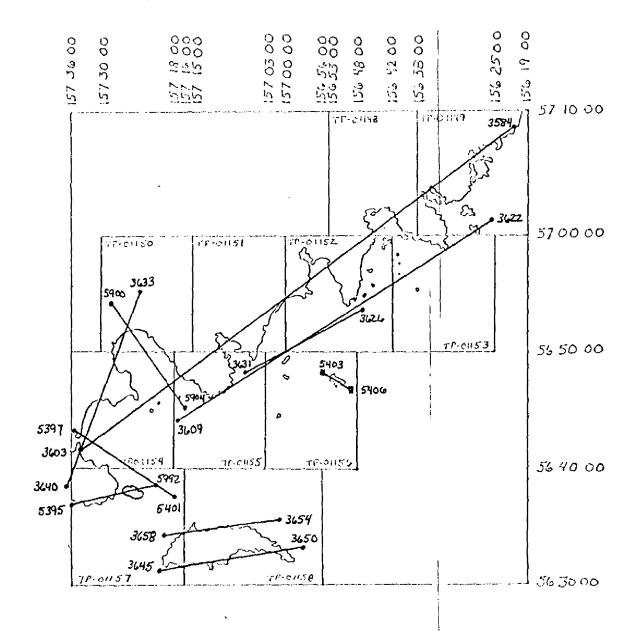


## CIN-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

# BLACK AND WHITE INFRARED PHOTOGRAPHS MHW

83B(R) 1:50000

\* 83 B (R) 1:12000

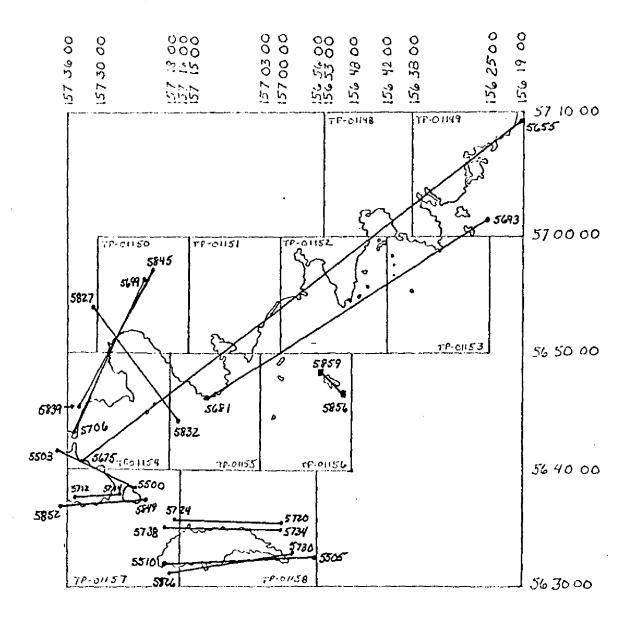


## CM-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

# BLACK AND WHITE INFRARED PHOTOGRAPHS MLLW

• 83 B(R) 1:50000

# 83 B (R) 1:12000



# REFERENCE TO SKETCH OF BRIDGING PHOTOGRAPHS

1	SHANE, 1982	(429100)
1		(433100)
2	LAGOON, 1944	(435100)
3	PORT, 1944	(438100)
4	NAKOLILOK E. BASE, 1944	(442100)
5	YANT, 1944	(444100)
6	KUNMIK, 1944	(469100)
7	RUSS, 1982	
8	ASPEN, 1945	(481100)
9	GOON, 1945	(479100)
		(478100)
10	LAND, 1945	(468100)
11	LAG, 1945	(467100)
12		(465100)
13	KUMLIK, 1925	•
14	ATTI, 1982	(462100)
15		(461100)
	1005	(460100)
16	TOUT 1044	(458100)
17		(603100)
18	B HAWK, 1944	(602100)
19	9 HUEY, 1982	•
20	o UGAI, 1944	(600100)
٠.	<del>*</del>	

Fit to Control

Station Name		<u>Values in</u>	Feet
<u>Jeu e i on mana</u>	1:12,000	. <u>X</u>	<u>Y</u>
STRIP #1 OGAI, 1944 HUEY, 1982 HAWK, 1944	600100 △ 602100 △ 603100 △ 1:50,000	.001 .000 .000	001 .000 .000
STRIP #1  ATTI, 1982  SUT, 1925  WIK, 1925  FOGGY CAPE LIGHT, 1944	462100 △ 461100 △ 460100 △ 458100 △	307 561 .873 004	
STRIP #2  KUMLIK, 1925  BLU, 1925  LAG, 1945 - Sub Point  RUSS, 1982	465100△ 467100△ 468101△ 469100△	.422 -2.398 1.938 .024	.860
STRIP #3  RUSS, 1982  LAG, 1945 - Sub Point  LAND, 1945  GOON, 1945  ASPEN, 1945	469100 △ 468101 △ 478100 △ 479100 481100 △	-2.184 5.473 -4.094 -15.787 .806	.991 -1.354 .753 -32.546 388
STRIP #4  GOON, 1945  TIE from #3  TIE from #3  TIE from #3  TIE from #3	479100 485801△ 485802△ 486801△ 486802△	-15.482 172 189 729 310	-30.214 .324 390 022 -1.093

•	2		
TIE FROM 3#	486803△	.881	.990
LAND, 1945	478100	-6.042	
TIE FROM #3	487801 △	.472	773
TIE FROM #3	487802△	963	.813
TIE FROM #3	487803△	.900	.051
STRIP #6			
SHANE, 1932 - Sub Point	429101 △	.838	-1.243
LAG00N, 1944	433100 △	-2.495	3.446
PORT, 1944	435100△	1.204	-2.546
NAKOLILOK E. Base, 1944	438100△	038	.454
YANT, 1944	442100 △	1.785	397
KUNMIK, 1944	444100 △	-1.290	.293
STRIP #7			
ALL POINTS ARE TIES	356801 △	1,099	088
FROM STRIP #6	356802 △	-1.134	1.198
	356803 △	.794	.266
	357801 △	-2.517	-1.172
	357802 △	.991	-1.309
	357803 △	-1.949	.448
	358801 △	2.983	853
	358802 △	1.302	.231
	358803 △	.840	1.773
	360801 △	.320	.020
	360802 △	-1.647	.175
	360803 🛆	-2.752	.519
	362801 △	2.019	1,803
	362802 △	~.686	.804
	362803 △	.151	-3.205
	364801 △	485	1.800
	364802 △	670	1.283
	364803 △	1.380	.985

 $\mathcal{A}_{i} = \mathcal{A}_{i} = \mathcal{A}_{i}$ 

TIE FROM

#6

		4		
TIE FROM	#6	356802	2.300	2.957
	#6	356803	-2.906	-3.178
TIE FROM	#7	420802△	-1.186	653
	#7	420803	779	-1.627

△ STATIONS HELD IN THE STRIP ADJUSTMENTS

Ratio Values
CM-8200
Cape Kilokak to Cape Kumlik, Alaska

•

1:50,000	) <u>Col</u>	or Br	idgin	g Photographs	Ratio Value
82 B(C)	6356	thru	6365		2.565
	6413	u	6420		2.559
	6429	11	6445		2.567
	6457	14	6463		2.564
	6465	(I	6469		2.569
	6473	i.	6481	·	2.568
	6483	H	6487		2.562
	6600	*1	6603	(1:12,000)	.608
1:50,000	) Blac	ck-and	<u>l</u> Whit	te-Infrared Photographs-MHW	
83 B(C)	3584	thru	3603		2.538
` ,	3609	п	3622		2.535
	3626	11	3631		2.543
	3633	п	3640		2.538
	3644	16	3650		2.537
	3654	11	3658		2.539
	5392	11	5395		2.573
	5397	μ	5401		2.571
	5403	11	5406	(1:12,000)	.606
1:50,00	0 Bla	ck-an	d-Whi	te Infrared Photographs-MLLW	
83 B(R)					2.491
	5505	11	5510		2.487
	5655	11	5675		2.497
	5681		5693		2.500
	5699		5706		2.500
	5712		5714		2.503

83 B(R) 5720 thru 5724	2.503
5726 " 5730	2.504
5734 " 5738	2.502
5827 " 5832	2.538
5839 " 5845	2.557
5849 " 5852	2.545
5856 " 5859 (1	:12,000) .584
1:30,000 Color Compilation	n Photographs
82 B(C) 6606 thru 6615	1.531
6624 " 6626	1.532
6649 " 6659	1.526
6660 " 6661	1.526
6665 " 6676	1.530
6693 " 6703	1.529
6708-09, 6711-13,	6715-18 1.532
6885	1.524
8438 thru 8442	1.527
8444 " 8447	1.526
8467 " 8473	1.520
8484 " 8487	1.533
8490-93, 8495-96	1.529
8503 thru 8505	1.523
8515 " 8522	1.536
8576 " 8584	1.500
8651 " 8656	1.531

			)			
NOAA FORM 76-41   (6-75)					U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	ш <b>э</b>
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD			
мар no. TP-01149	JOB NO. CM-8200		GEODETIC DATUM	Photogrammetric	Metric Sect., Seattle, WA	.d¹
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	COORDINATES IN FEET STATE ZONE 6	GEOGRAPHIC POSITION  φ LATITUDE  λ LONGITUDE	REMARKS	T
Lagoon, 1944	Pub. G.P.Vol5 Rev. 6/11/48	ļ	x= 796,673,870 \$\phi\$			<del></del>
	Pub. G.P.Vols	2				Т.
Port, 1944	Rev. 6/10/48	435100	1,102,705,313			
			φ = x			T
			γ - <i>γ</i>			
			φ = <b>x</b>			T
			<i>y</i> =			
			φ =x			
			η=		-	
			φ = χ			
			<i>ή</i> =			
			φ φ			
			<i>η=</i>			
			φ **			1
			ηπ			
			φ Φ			_
			y=			
		-	ф ф			г
			<i>γ</i> = <i>γ</i>			
computed by V. McNeel		08/25/82	computation checked by Thornton		DATE 08/26/82	_
LISTED BY V. McNeel		08/25/82	LISTING CHECKEPHY THOMEON		DATE 08/26/82	· —
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE	2
		SUPERSEDES NO	SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	IS OBSOLETE.		7

#### Compilation Report

#### TP-01149

#### DELINEATION

Delineation was accomplished by a combination of stereo instrument and graphic methods. The color bridging photographs were used in conjunction with a Wild B-8 to compile the MHW line and interior detail as well as bare and awash rocks. Pass points were also selected and positioned on the B-8 to control the enlarged infrared photographs taken at predicted MILW. These infrared photographs were used to graphically compile the MILW line, ledges, and additional rocks which may have not been visible on the color bridging photographs because of difference in water level.

#### 32, CONTROL

As discussed in the preceding photogrammetric plot report, dated April 1984, control is adequate. A series of preselected hydro signals which were paneled during the field inspection operation for this project, were not carried forward on this manuscript since field edit is not required. Position listings of the aerotriangulated photo-hydro signals and forms 76-53, Control Station Identification cards, are forwarded with this project for disposition as required.

#### 33. SUPPLEMENTAL DATA

None.

#### 34. CONTOURS AND DRAINAGE

Contours are not required on this project. Drainage was delineated on the stereoplotter from the color 1:50,000 scale bridging photographs.

#### 35. SHORELINE AND ALONGSHORE DETAIL

The preceding form 76-36B, as well as section 31 of this report, detail the sources and method used to compile the shoreline and alongshore detail. Standard symbolization was used throughout this manuscript. Infrared contact prints 83B(I) 3584 through 3588 were provided and used as interpretive aids. The tide level displayed on these 1:50,000 scale prints was calculated to be 1.7 feet below MHW.

#### OFFSHORE DETAIL

Offshore detail was compiled in the same manner as the shoreline and alongshore detail, discussed in the preceding section of this report. Two offshore areas appear to constitute significant hazards to navigation due to apparent off laying rocks awash. Both areas fall between David Island and the mainland in a northwesterly direction.

Both of these areas were noted on the copies forwarded to the NOAA Ship FAIRWEATHER and to N/CG241 for Presurvey Review.

#### 37. LANDMARKS AND AIDS TO NAVIGATION

There are no charted landmarks or Aids to Navigation within this manuscript.

#### 38. CONTROL FOR FUTURE SURVEYS

None.

#### 39. JUNCTIONS

Refer to the preceding form 76-36B, item 5.

#### 40. HORIZONTAL AND VERTICAL ACCURACY

Refer to the preceding aerotriangualation report dated April 1984.

#### 46. COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S.G.S. quadrangle: UGASHIK (A-2), Alaska, 1951 (Limited Rev. 1981), 1:63,360 scale

#### 47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Service chart:
Wide Bay to Cape Kumlik, 16568, 5th edition, December 9, 1978, 1:106,000 scale

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

Submitted by,

Daniel C. Holeski

Daniel C. Holoski

Cartographer

November 2, 1984

Approved:

James R. Minton

James R. Minton

Acting Chief, Photogrammetric Section

November 2, 1984

#### GEOGRAPHIC NAMES

#### FINAL NAME SHEET

CM-8200 (Cape Kilokak to Cape Kumlik, Alaska)

TP-01149

Agripina Bay
Agripina River
Alaska Peninsula
Ashiiak Island
David Island
Flat Island
Glacier River
Kilokak River
Lone Rock
Poltava Island
Port Wrangell
Shelikof Strait

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

#### REVIEW REPORT SHORELINE TP-01149

#### 61 - GENERAL STATEMENT

See Summary included with this report.

#### 62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

Not applicable.

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

A comparison was made with U.S.G.S. Quadrangle: Ugashik (A-2), Alaska, dated 1951, limited revisions 1981, scale 1:63,360.

#### 64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There are no contemporary hydrographic surveys within the limits of this map.

#### 65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following N.O.S. Chart: Preliminary Chart 16568, 5th edition, dated December 9, 1978, scale 1:106,600.

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

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

Submitted by

Lowell O. Neterer, Jr.

Final Reviewer 30 August 1985

Approved for forwarding,

Billy H. Barnes

Chief, Photogrammetric Section

Belly W. Barn

Approved,

Chief, Photogrammetric Section,

Rockville

Lonald K. Brewer

Chief, Photogrammetry Branch,

Rockville

#### NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TO:

N/MOP - Robert L. Sandquist

N/CG2 - J. Austin Yeager Vel. Frederick K. Ganjon FROM:

Aerotriangulation Stations and Shoreline Accuracy for SUBJECT: OPR-P180-FA-86

REF: Memorandum to N/MOP from Commanding Officer, NOAA Ship

FAIRWEATHER, Same Subject, dated August 19,1986

The Commanding Officer, NOAA Ship FAIRWEATHER \$220, has established that the control points furnished by the Aerotriangulation Unit, Photogrammetry Branch (PB), for Job CM-8200, Cape Kilokak to Cape Kumlik, Alaska, have a datum shift of approximately 18 meters. PB investigated this discrepancy and found it correct. When this project was bridged by aerotriangulation, the control points used were based on a 1948 geodetic adjustment. A new geodetic adjustment was performed in 1976. This adjustment caused a datum shift in longitude of approximately 1 second and .05 to .1 second in latitude

Five geodetic control stations were selected from Job CM-8200 extending over the whole project. A comparison was made between the 1948 and 1976 adjustments.

Station	1948 Adjustment	1976 Adjustment	Datum Shift	Meters
Lagoon	57°06'02.626"	57°06'02.722"	.096*	2.97
1944	156°30'28.250"	156°30'29.290"	1.040*	17.50
Port	57°00'40.699*	57°00'40.792"	.093"	2.87
1944	156°35'41.795"	156°35'42.836"	1.041"	17.57
Yant	56°50'45.505"	56°50'45.579"	.074*	2.29
1944	157°06'22.039"	157°06'23.072"	1.033*	17.51
Sut	56°34'17.611"	56°34'17.673"	.062"	1.92
1925	157°12'56.916"	157°12'57.916"	1.000"	17.08
Lag	56°40'38.729"	56°40'38.779"	.050"	1.55
1 <b>954</b>	157°31'53.263 <u>"</u>	157°31'54.285"	1.022"	17.40

CG2311:PDempsey:443-8340: jls:9/17/86:Aero/Alaska:APK2

	CODE	SURNAME	DATE,	CODE	SURNAME	DATE
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ſ	N/CG23	Brewen	9/17			
Ī			7			[

The mean value of this adjustment is 17.4 meters in longitude and 2.3 meters in latitude. This should be taken into consideration when applying these manuscripts.

A copy of this Memorandum will be inserted in each Descriptive Report for Job CM-8200.

cc:

N/MOP21 - Richards N/CG22 - Nortrup N/CG23 - Brewer N/CG24 - Matsushige

FORM	L	63-	8434
	8.3		

#### NAUTICAL CHART DIVISION

#### RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

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

1. Letter all information.

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

3. Give reasons for deviations, if any form recommendations and and all the second s

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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