NOAA FORM 76-35 (6-80)

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

DESCRIPTIVE REPORT

THIS MAP EDITION WILL NOT BE FIELD EDITED. Edition No. Map No. 1 TP-01150 Job No. CM-8200 Map Classification CLASS III FINAL Type of Survey SHORELINE LOCALITY State ALASKA General Locality CAPE KILOKAK TO CAPE KUMLIK Locality AMBER BAY 19 82 TO 19 83 REGISTERED IN ARCHIVES DATE

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY T	.01150
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	M ORIGINAL	MAP EDITIO	v NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	III Final
DESCRIPTIVE REPORT - DATA RECORD	REVISED	JOB 19PK	cm 8200
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDI		
Pacific Marine Center	TYPE OF SURVEY		
Seattle, Washington	ORIGINAL	MAP CLASS	
OFFICER-IN-CHARGE	RESURVEY	SURVEY DA	
David W. Yeager	REVISED	19TO 19_	
I. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	
Aerotriangulation Feb. 15, 1984 Office July 24, 1984	Field Field (Change 1)		5, 1982 1, 1982
II. DATUMS	OTHER (Specify)		
1. HORIZONTAL: X 1927 NORTH AMERICAN	None		
	None		
3. MAP PROJECTION		GRID(S)	
Transverse Mercator	Alaska	6	
5. SCALE 1:20,000	STATE	ZONE	
III. HISTORY OF OFFICE OPERATIONS			
OPERATIONS	S, Solbeck		April 1984
I, AEROTRIANGULATION METHOD: Amalytic LANDMARKS AND AIDS BY		<u></u>	April 1984
METHOD: Analytic LANDMARKS AND AIDS BY 2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck		April 1984
METHOD: Calcomp 718 plotter CHECKED BY	D. Norman		April 1984
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Butler		Oct. 1984 Oct. 1984
COMPILATION CHECKED BY	J. Minton		1704
INSTRUMENTWILD B-8 Stereoplotter CONTOURS BY CHECKED BY	N.A.		
scale: 1:20,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	D. Holeski		Nov. 1984
CHECKED BY	J. Minton		Nov. 1984
сонтоик ву метнор: Smooth drafted, graphic снескер ву	N.A.		
	N.A.		
MLLW line HYDRO SUPPORT DATA BY SCALE: 1:20,000 CHECKED BY	N.A.		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N.A.		
6. APPLICATION OF FIELD EDIT DATA	N.A.		
I A ADDITION OF FIELD EVIL DAIA	N.A		July 1985
CHECKES 5.	T Minton		
7. COMPILATION SECTION REVIEW CLASS III BY	J. Minton L. O. Neterer, Ju		Oct. 1985
7. COMPILATION SECTION REVIEW Class III BY 8. FINAL REVIEW Class III BY	T O Material In		Dec. 1985
7. COMPILATION SECTION REVIEW Class III BY 8. FINAL REVIEW Class III BY	L. O. Neterer, Jr L. O. Neterer, Jr		

IOAA FORM 76-36B 3-72)	СОМ	TP-01150 PILATION SOL		U.S. DEPARTMEN' C AND ATMOSPHERIC / NATIONAL	T OF COMMERC ADMINISTRATIO OCEAN SURVE			
. COMPILATION PHOTOGRAPHY								
CAMERA(S) (focal length l Wild R.C. 10 "B"	52./4 mm)		HOTOGRAPHY GEND	TIME REFER	RENCE			
TIDE STAGE REFERENCE		(C) COLOR		ZONE				
X PREDICTED TIDES		(P) PANCHRO	MATIC	Alaska	X STANDAR			
REFERENCE STATION RECORDS	REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPHY			MERIDIAN 150° W	DAYLIGH			
		Time	SCALE	STAGE OF	TIDE			
NUMBER AND TYPE	DATE	TIME	SCALE	37,402.01				
32B(C)6479 thru 6481	Jul.19,1982	11:56	1:50,000	7.3 ft. above	MLLW			
33B(I)5828 thru 5830	Aug. 26, 1983	9:01	1:50,000	0.1 ft. above	MLLW			
REMARKS Tide levels were calculated for Anchorage Bay subordinate station using Kodiak as the reference station. Mean High Water is 8.1 feet above Mean Lower Low Water. 2. SOURCE OF MEAN HIGH-WATER LINE: The Mean High Water Line was compiled on a Wild B-8 stereoplotter using the color photographs listed above.								
The Mean Lower Low Venlargements listed report for the enlar points which were se	Vater Line was in item one a	s compiled above. See These principled do	the attached ints were cor	l aerotriangula itrolled with pa	tion ass			

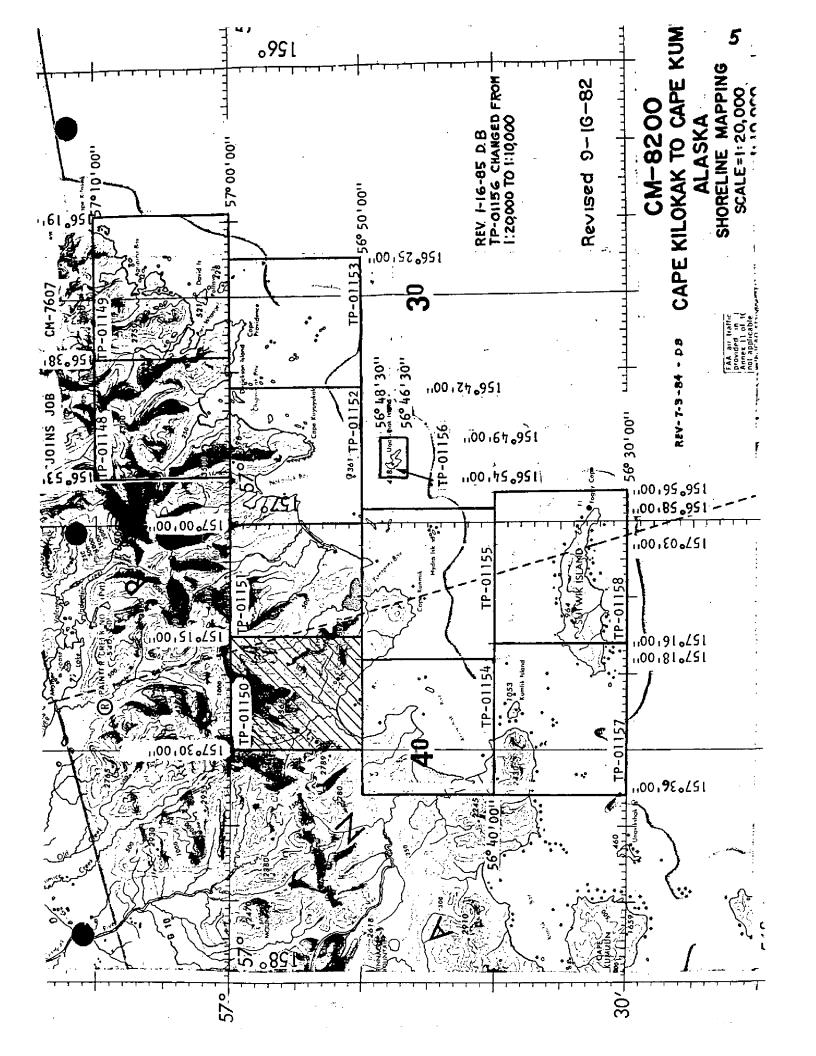
4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.) SURVEY COPY USED SURVEY COPY USED SURVEY NUMBER DATE(S) SURVEY NUMBER DATE(S) 5. FINAL JUNCTIONS WEST SOUTH EAST NORTH TP-01154 & TP-01155 No Sürvey TP-01151 No Survey REMARKS

DAA FORM 76–36C -72)		TP-01150 History of Field (NATIONAL OCEANIC	AND ATMO	SPHERIC ADMI	COMMERCINISTRATIC
X FIELD INSPE	ECTION OPE	RATION (premarking)	EDIT OPERATION	. · <u>-</u> -		_
	OP.	ERATION	NAM	IE		DATE
	5 5 4 D T V		D Melby		Tun	ne 1982
. CHIEF OF FIEL	DPARIT		R. Melby			ne 1982
		RECOVERED BY	R. Melby None			1702
HORIZONTAL C	ONTROL	ESTABLISHED BY	L. Riggers		Ju	ne 1982
		RECOVERED BY	N.A.			
VERTICAL CON	ITROL	ESTABLISHED BY	N.A.			
VERTICAL CON		PRE-MARKED OR IDENTIFIED BY	N.A.			
•		ECOVERED (Triangulation Stations) BY	None			
LANDMARKS AN		LOCATED (Field Methods) BY	None			
AIDS TO NAVIG	ATION	IDENTIFIED BY	None			
		TYPE OF INVESTIGATION			}	
GEOGRAPHIC N		COMPLETE BY				
INVESTIGATION	N	SPECIFIC NAMES ONLY				
		X NO INVESTIGATION	37			
PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	None N.A.	 -		· · · · ·
BOUNDARIES A		SURVEYED OR IDENTIFIED BY	N.A.			
SOURCE DATA	CONTROL ID	ENTIFIED and paneled	2. VERTICAL CONT	ROL IDENT	IFIED	
HORIZONIAL	JON I ROL ID	ENTIFIED SITE POLICECE	None			
	<u> </u>	STATION NAME	PHOTO NUMBER	STA	TION DESIGNA	TION
	ASPEN	v, 1945				
None Landmarks a		ntion of details) NAVIGATION IDENTIFIED				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER		OBJECT NAMI	E
5. GEOGRAPHIC	NAMES:	REPORT X NONE	6. BOUNDARY AND	LIMITS:	REPORT	X NONE
7. SUPPLEMENT	AL MAPS AN	ID PLANS				
None 				1.1>		
Field Ope	rations	Sketch books, etc. DO NOT list data subm Report and NOAA Forms 76- - hydro stations.	itted to the Geodesy Div 53 for paneled	contro	l, and	

NOAA FORM 76-36D (3-72) U. S. DEPARTMENT OF COMMERCE TP-01150 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

RECORD OF SURVEY USE

	•		KECUI	KD OF SURVET	035			
I. MANUSC	RIPT COPIES							
		MPILAT	TION STAGE	5			DATE MANUSCRI	PT FORWARDED
	DATA COMPILED		DATE	REM	ARKS	<u> </u>	ARINE CHARTS	HYDRO SUPPORT
C1 000	III compilation					1		
comple	_	 Tag 1 s	1985	Class III M	anuscrip	t l		
COmpte		1001)		01450 111 11		+		
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Finál [*]	Reviewed	Oct.	1985	Final Class	III Map	, [.	16/12/85	14/12/85
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	ARKS AND AIDS TO NAVIGA		None					
1. REP	ORTS TO MARINE CHART D	IVISION	, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER		DATE			REMA	RKS	
NUMBER	NUMBER ASSIGNED	FO	RWARDED	ļ.—————				
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==	REPORT TO MARINE CHAR REPORT TO AERONAUTIC	T DIVIS	SION, COAST	PILOT BRANCH.	DATA SECT	ION. DA	TE FORWARDED	
3. U	RAL RECORDS CENTER DA		AT DIVISIO	T, ACHORAG TONE				
III. PEDE	RAL RECORDS CENTER DA							
1. V Ÿ	BRIDGING PHOTOGRAPHS	: \ \	DUPLICATI	E BRIDGING REPOF	₹Τ; <u></u> <u>¥</u> ΧΙ Co	MPUTE	R READOUTS.	
2. **	CONTROL STATION IDEN	rificat	TION CARDS	FORM NOS	567 SUBMIT	TED BY	FIELD PARTIES	•
3. *x	SOURCE DATA (except for	Geograp	hic Names R	eport) AS LISTED I	N SECTION I	I, NOAA	FORM 76-36C.	
	ACCOUNT FOR EXCEPTION	NS:						
	_							
	DATA TO FEDERAL REC							
IV. SURV	EY EDITIONS (This section	shall b	JOB NUMB	each time a new man	edition is re	gistered,	TYPE OF SURVE	/
	SURVEY NUMBER	(2)	PH			RE		ESURVEY
SECONE	- TTT OF BUOTOCRA		<u> </u>	FIELD EDIT			MAP CLASS	
EDITION	, Davis or Filotookia				□n.	□ iii.	□ıv. □v.	FINAL
-	SURVEY NUMBER		JOB NUMB	ER		 "	TYPE OF SURVEY	· · · · · · · · · · · · · · · · · · ·
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EDITION				FIELD EDIT	_	_	MAP CLASS	
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	SURVEY NUMBER		JOB NUMB	ER		_	TYPE OF SURVEY	
FOURTH	, ТР	(4)	PH			∐ RE		SORVEY
EDITIO	DATE OF PHOTOGRA	PHY	DATE OF	FIELD EDIT			MAP CLASS	П



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01150

This 1:20,000 scale shoreline map is one of eleven maps that comprise project CM-8200 Cape Kilokak, Alaska latitude 57°10'00 south to Cape Kumlik, Alaska latitude 56°30'00". This project 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, accomplished in June 1982, involved the identification of horizontal control by premarking 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 October 1985. This map is to be registered as a 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 Administrat NATIONAL OCEAN SURVEY Pacific Marine Center 1801 Fairview Avenue East Seattle, Washington 98102

August 10, 1982

CPM133/RBN

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 (Cl31, McKay) to determine, if the final adjustment of the horizontal control in/the project area has been accomplished.

Edward J. Mckay 443 -8168

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 Administra NATIONAL OCEAN SURVEY Pacific Marine Center 1801 Fairview Avenue East Seattle, Washington 98102

August 10, 1982

CPM133/R

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 February 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, prior 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.

<u>Transportation</u>: 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. /Solbeck

Approved and Forwarded:

Don O. Norma

Don O. Norman

Chief, Aerotriangulation Unit

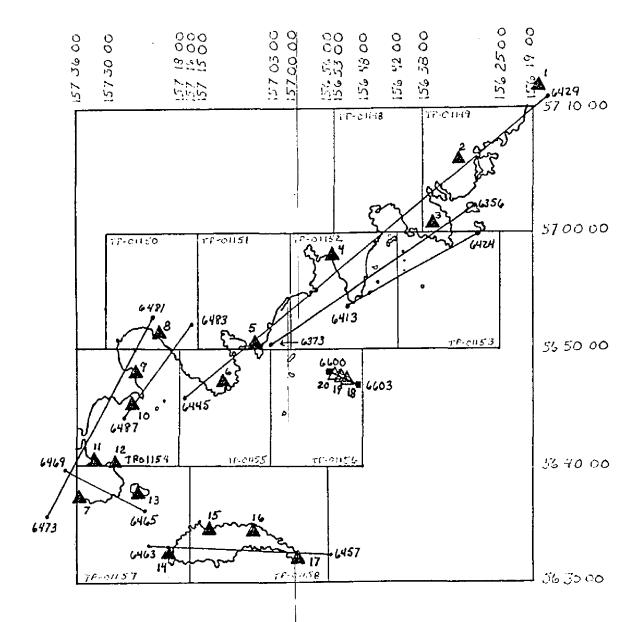
CHY-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BRIDGING PHOTOGRAPHS

• 82B(c) 1:50000

■ 82B(4) 1:12000

▲ HORIZONTAL CONTROL

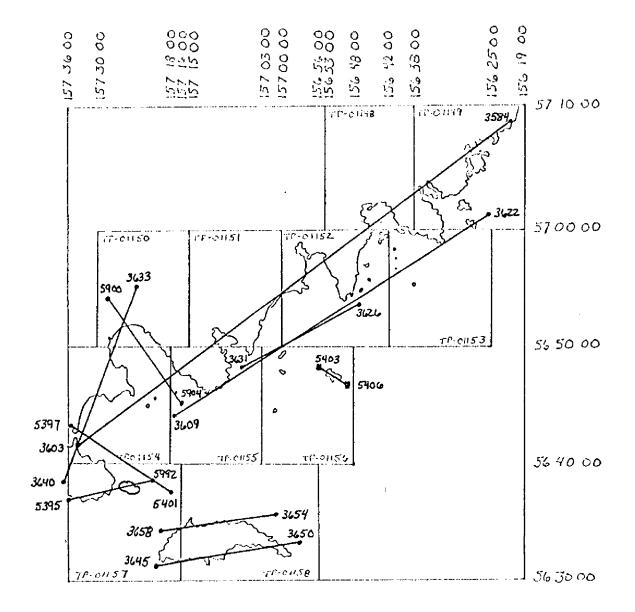


CM-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BLACK AND WHITE INFRARED PHOTOGRAPHS MHW

· 83 B(R) 1:50000

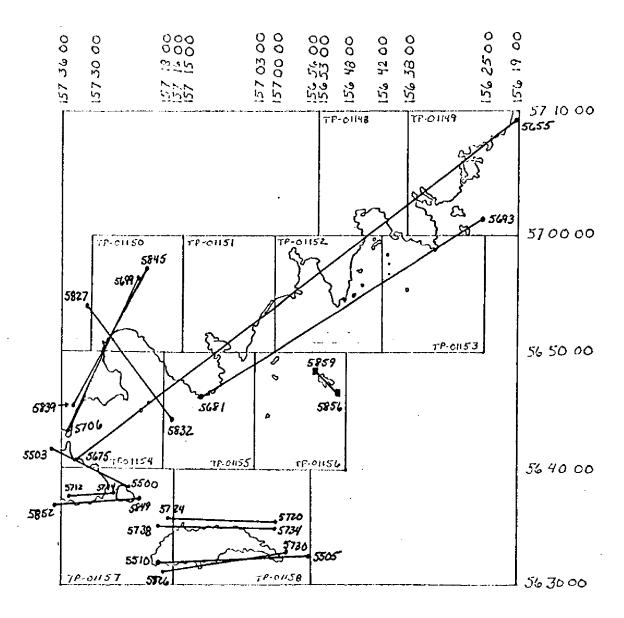
■ 83 B (R) 1:12000



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)
2	LAGOON, 1944	(433100)
3	PORT, 1944	(435100)
4	NAKOLILOK E. BASE, 1944	(438100)
5	YANT, 1944	(442100)
6	KUNMIK, 1944	(444100)
7	RUSS, 1982	(469100)
8	ASPEN, 1945	(481100)
9	GOON, 1945	(479100)
10	LAND, 1945	(478100)
11	LAG, 1945	(468100)
12	BLU, 1925	(467100)
13	KUMLIK, 1925	(465100)
14	ATTI, 1982	(462100)
15	SUT, 1925	(461100)
16	WIK, 1925	(460100)
17	FOGGY CAPE LIGHT, 1944	(458100)
18	HAWK, 1944	(603100)
19	HUEY, 1982	(602100)
20	UGAI, 1944	(600100)

Fit to Control

Station Name		<u>Values in Feet</u>		
	1:12,000	<u>X</u>	<u>Y</u>	
STRIP #1				
OGAI, 1944	600100 △	.001	001	
HUEY, 1982	602100 △	.000	.000	
HAWK, 1944	603100△	.000	.000	
	1:50,000			
STRIP #1				
ATTI, 1982	462100△	307	.068	
SUT, 1925	461100△	561	954	
WIK, 1925	460100△	.873	.497	
FOGGY CAPE LIGHT, 1944	458100△	004	. 388	
STRIP #2				
KUMLIK, 1925	465100△	.422	700	
BLU, 1925	467100△	-2.398	.860	
LAG, 1945 - Sub Point	468101△	1.938	.300	
RUSS, 1982	469100△	.024	456	
STRIP #3				
RUSS, 1982	469100△	-2.184	.991	
LAG, 1945 - Sub Point	468101△	5.473	-1.354	
LAND, 1945	478100△	-4.094	.753	
GOON, 1945	479100	-15.787	-32.546	
ASPEN, 1945	481100△	.806	388	
STRIP #4				
GOON, 1945	479100	-15.482	-30.214	
TIE from #3	485801△	172	.324	
TIE from #3	485802△	189	390	
TIE from #3	486801△	729	022	
TIE from #3	486802△	310	-1.093	

	2		
TIE FROM 3#	486803△	.881	.990
LAND, 1945	478100	-6.042	5.116
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
LAGOON, 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

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

 \triangle STATIONS HELD IN THE STRIP ADJUSTMENTS

Ratio Values

CM-8200

Cape Kilokak to Cape Kumlik, Alaska

1:50,000) Co1	or Br	idging P	hotographs	Ratio Value
82 B(C)	6356	thru	6365		2.565
	6413	11	6420		2.559
	6429	11	6445		2.567
	6457	н	6463		2.564
	6465	n	6469		2.569
	6473	н	5481		2.568
	6483	п	6487		2.562
	6600	н	6603 (1:	12,000)	.608
1:50,000	O Blac	ck-and	White-I	nfrared Photographs-MHW	
83 B(C)	3584	thru	3603		2.538
	3609	и	3622		2.535
	3626	i i	3631		2.543
	3633	п	3640		2.538
	3644	п	3650		2.537
	3654	н	3658		2.539
	5392	ч	5395		2.573
	5397	ti	5401		2.571
	5403	ti	5406 (1:	12,000)	.606
1:50,000	O Bla	ck-and	I-White I	nfrared Photographs-MLLW	
83 B(R)	5500	thru	5503		2.491
, ,	5505	14	5510		2.487
	5655	11	5675		2.497
	5681	H	5693		2.500
	5699	ţŧ	5706		2.500
	5712	H	5714		2.503

83 B(R)	5720	thru	5724	2.503
	5726	11	5730	2.504
	5734	11	5738	2.502
	5827	II.	5832	2.538
	5839	u	5845	2.557
	5849	11	5852	2.545
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Compilation Report TP-01150

31. 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 mean lower low water. These enlarged infrared photographs were used to graphically compile the MILW line, ledges, and additional rocks which may not have been visible on the color bridging photographs because of the difference in water level.

32. Control

As discussed in the preceding Photogrammetric Plot Report, dated April 1984, control is adequate.

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) 5900 through 5902 were provided and used as interpretive aids. The tide level displayed on these 1:50,000 scale prints was calculated to be 1.3 feet below Mean High Water.

36. Offshore Detail

Offshore detail was compiled in the same manner as the shoreline and along-shore detail discussed in the preceding section of this report.

37. Landmarks and Aids to Navigation

These 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 five.

40. Horizontal and Vertical Accuracy

Refer to the Photogrammetric Plot Report, dated April 1984.

46. Comparison with Existing Maps

A comparison was made with the following U.S.G.S. quadrangles:

SUTWIK ISLAND (D-5), Alaska, 1963, 1:63,360 scale SUTWIK ISLAND (D-4), Alaska, 1963, 1:63,360 scale SUTWIK ISLAND, Alaska, 1963,1:250,000 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 Cartographer

Daniel C. Holeski

July 23, 1985

Approved:

James R. Minton

James R. Minter_

Acting Chief, Photogrammetric Section

July 24, 1985

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01150

Alaska Peninsula Amber Bay Main Creek Mountain Creek Northeast Creek West Creek

Approved:

Charles E. Harrington Chief Geographer

Nautical Charting Division

REVIEW REPORT SHORELINE

TP-01150

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. quadrangles: Sutwik Island (D-4), Alaska, dated 1963, Sutwik Island (D-5), Alaska, dated 1963; both are 1:63,360 scale; Sutwik Island, Alaska, dated 1963, scale 1:250,000.

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 NOS chart: Preliminary Chart 16568, 5th edition, dated December 9, 1978, scale 1:106.600.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Lowell O. Neterer, Jr. Final Reviewer

October 25, 1985

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section

Approved

Chief, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

TO:

N/MOP - Robert L. Sandquist

FROM:

ON/CG2 - J. Austin Yeager V. Frederick K. Ganjon

SUBJECT:

Aerotriangulation Stations and Shoreline Accuracy for 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 S220, 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.

	ŧ		Datum	
Station	1948 Adjustment	1976 Adjustment	<u> Shift</u>	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
1954	157°31'53.263"	157°31'54.285"	1.022	17.40

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

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		7			<u> </u>

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

NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

INSTRUCTIONS

PARM CARE STREETER DES ALL EDITIONS OF FORM CASS-075.

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart 1. Letter all information.

2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Re-

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