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.
Map No. Edition No.
TP-01153
Job No.
CM-8200
Map Classification
CLASS III FINAL
Type of Survey
SHORELINE
LOCALITY
State
ALASKA
General Locality
CAPE KILOKAK TO CAPE KUMLIK
Locality
CAPE PROVIDENCE
19 83 TO 19 83
DEGLETERED IN ADCUMES
REGISTERED IN ARCHIVES
DATE

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SURVEY	тр. <u>_Ø1153</u>
TO THE STATE OF THE ATMOSPHERIC ADMIN.	18.	TION NO. (1)
		ss III Final
DESCRIPTIVE REPORT - DATA RECORD	_	
	REVISED JOB	PACCM _82/4/4
Pacific Marine Center	LAST PRECEEDING MAP EL	DITION
Seattle, Washington	TYPE OF SURVEY JOB	PH
OFFICER-IN-CHARGE	l _	\SS
	RESURVEY SURVEY	. =
David W. Yeager	#EVISED 19TO	19
I. INSTRUCTIONS DATED	F	
1. OFFICE	2. FIELD	
Aerotriangulation Feb. 15, 1984 Office July 24, 1984		ъ. 5, 1982 y 21, 1982
II. DATUMS		
1. HORIZONTAL: X 1927 NORTH AMERICAN	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	4. GR(D(S)	
Transverse Mercator	Alaska 6	
5. SCALE	STATE ZONE	
1:2୪,୪୪୪		
HISTORY OF OFFICE OPERATIONS		
OPERATIONS	S. Solbeck	April 1984
I. AEROTRIANGULATION BY METHOD: Analytic Landmarks and aids by		April 1984
2. CONTROL AND BRIDGE POINTS PLOTTED BY	S. Solbeck	April 1984
METHOD: Calcomp 718 CHECKED BY	D. Norman	April 1984
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	D. Butler	Oct. 1984
COMPILATION CHECKED BY	J. Minton/ D. Holeski	Nov. 1984
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
SCALE:1:27, MMM CHECKED BY	N.A.	Nov. 1984
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	D. Holeski J. Minton	March 1985
Smooth drafted and granhiccontours by	N.A.	11012-011-707
METHOD: MILW line	N. A.	
HYDRO SUPPORT DATA BY	N.A.	
1:20,000 CHECKED BY	N.A.	
5, OFFICE INSPECTION PRIOR TO FIELD EDIT BY	N.A.	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW ClassIII BY	J. Minton	July 1985
8. FINAL REVIEW Class III BY	L.O. Neterer, Jr.	Sept. 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L.O. Neterer, Jr.	Dec. 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	F. Dempsey F DAUGHERTY	Jan 1986 FEB 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY NOAA FORM 76-36 A SUPERSEDES FORM C& GS 181 SERIES		

U. S. DEPARTMENT OF COMMERCE
TP-01153 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

COMPILATION SOURCES							
1. COMPILATION PHOTOGRAPHY							
CAMERAIS (focal length 15 Wild R.C. 10 "B"	2.74 mm)	TYPES OF PHOTOGRAPHY Legend			TIME REFERENCE		
TIDE STAGE REFERENCE		(C) COLOR		ZONE			
REDICTED TIDES		(P) PANCHRO	MATIC .		aska	XX6TANDARD	
REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAP	нү	(I) INFRARE	D	MERIDIAN 1 E	o ^o w	DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	15	U W STAGE OF 1	ine.	
			-				
82B(C)6418 thru 6422	Jul. 19, 1982	10:35	1:50,000		t. above		
82B(C)6356 and 6357	Jul. 19, 1982	10:15	1:50,000		t. above		
83B(I)5689 thru 5691	Aug. 26, 1983	9:34	1:50,000		t. above		
83B(I)5660 thru 5662	Aug. 26, 1983	9:09	1:50,000	0.1 [t. above	MTTIM	
	į į			,			
REMARKS	lated for An	ahawaaa Ban		a atatia	n waina V	radials as	
Tide levels were calcu the reference station.							
2. SOURCE OF MEAN HIGH-WATER I	_INE:		 ,				
The Mean High Water Line was compiled on a Wild B-8 stereoplotter using the color photographs listed above.							
•							
3. SOURCE OF MEANKERWAYATERS	R MEAN LOWER LO	W-WATER LINE:					
The Mean Lower Low Wa enlargements listed i report for the enlarg points which were sel MHW line described in	n item one a ement ratio. ected and po	bove. See These pri sitioned du	the attache nts were co	d aerotr ntrolled	iangulati with pas	.on	
4. CONTEMPORARY HYDROGRAPHI	C SURVEYS (List of	only those surveys	that are sources fo	or photogramm	etric survey in	(ormation.)	
SURVEY NUMBER DATE(S)	SURVEY CO	PY USED SUR	VEY NUMBER	DATE(S)	SURVE	Y COPY USED	
				<u></u>			
5. FINAL JUNCTIONS							
NORTH EA	AST	sou		١	NEST		
TP-01148 and TP-01149	No Survey		No Survey		TP-011	152	
REMARKS							

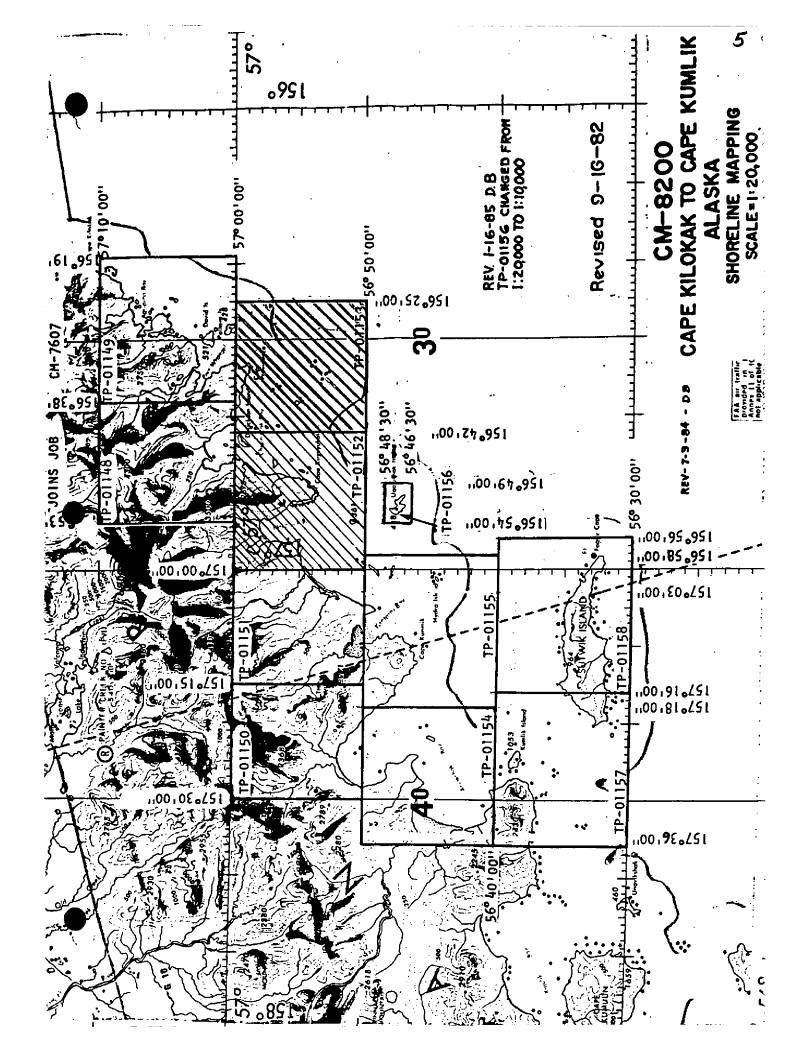
OAA FORM 76-36C 3-72)	TP-01153		IC AND ATMOSPHERI	ENT OF COMMERCY C ADMINISTRATION AL OCEAN SURVE
	HISTORY OF FIELD	\		
. XX FIELD INSPECTION OPE	RATION (Premarking) FIELD	EDIT OPERATION		<u> </u>
OF	PERATION	N/	AME	DATE
, CHIEF OF FIELD PARTY		R. Melby		June 1982
	RECOVERED BY	None		
HORIZONTAL CONTROL	ESTABLISHED BY	None		
	PRE-MARKED OR IDENTIFIED BY	None		
	RECOVERED BY	N.A.		
. VERTICAL CONTROL	ESTABLISHED BY	N.A.		<u> </u>
	PRE-MARKED OR IDENTIFIED BY	N.A. None		
	RECOVERED (Triangulation Stations) BY	None		
. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None	 	
	TYPE OF INVESTIGATION	1,0210		
. GEOGRAPHIC NAMES	COMPLETE			
INVESTIGATION	SPECIFIC NAMES ONLY			1
	XX) NO INVESTIGATION			
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None		
. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.		
SOURCE DATA	ENTIFIED	2. VERTICAL CON	TROL IDENTIFIED	
. HORIZONTAL CONTROL ID	ENTIFIED			
None		N.A.	STATION DE	SIGNATION
PHOTO NUMBER	STATION NAME			
	•			
3. PHOTO NUMBERS (Clarifics	ation of details)			
None				
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None		PHOTO NUMBER	OBJEC	T NAME
PHOTO NUMBER	OBJECT NAME	PHOTO NOMBER		
5. GEOGRAPHIC NAMES:	REPORT XX NONE	6. BOUNDARY AN	D LIMITS: REP	ORT XX NONE
7. SUPPLEMENTAL MAPS AN	D PLANS			
None				
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data subm	itted to the Geodesy D.	ivision)	
71.11.0	D = 11 = 12 = 1			
Field Operations	keport			

NOAA FORM 76-36D (3-72)

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

TP-01153 RECORD OF SURVEY USE

		KECOI	ND OF SURVEY	U3E		
I. MANUSC	RIPT COPIES					
	co		DATE MANUSCRI	PT FORWARDED		
	DATA COMPILED	DATE	REM	ARKS	MARINE CHARTS	HYDRO SUPPORT
Class I	II Compilation	May 1985	Sent to th	e field to FAIRWEATHER		
Class I Complet	II Compilation e	July 1985	Class III	Manuscript		
Final R	eviewed	Sept.1985	Final Clas	s III Map	14/12/85	14/2/85
	ARKS AND AIDS TO NAVIGA					
1. REP	ORTS TO MARINE CHART DI	i	DATA BRANCH			
NUMBER	CHART LETTER Number assigned	DATE FORWARDED		RE	MARKS	
		-				
						:
		<u> </u>	<u> </u>			
2. 🗀	REPORT TO MARINE CHAR	T DIVISION, COAST	PILOT BRANCH.	DATE FORWARDE	D:	
j	REPORT TO AERONAUTICA		I, AERONAUTICAL	DATA SECTION.	DATE FORWARDED:	
III. FEDE	RAL RECORDS CENTER DA	Γ Α				
. –	BRIDGING PHOTOGRAPHS;	E augusta	DRIDGING BEDOS	er. E	EP PEADOUTS	i
	CONTROL STATION IDENT					
	SOURCE DATA (except for C					
	ACCOUNT FOR EXCEPTION	NS:	•			
	DATA TO FEDERAL RECO				··	_
IV. SURV	EY EDITIONS (This section .			edition is register	ed) TYPE OF SURVEY	
	SURVEY NUMBER	(2) PH	-n	R		SURVEY .
SECOND			TELD EDIT		MAP CLASS	
EDITION				□n. □m	i. 🗆 iv. 🗆 v.	FINAL
	SURVEY NUMBER	JOB NUMBE	IR		TYPE OF SURVEY	***
THIRD	TP -	(3) PH		□ R	EVISED RE	SURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	IELD EDIT		MAP CLASS	
						FINAL
	SURVEY NUMBER	JOB NUMBE	ER	ᆸ.	TYPE OF SURVEY	On what
FOURTH			TELD EDIT	□Ř	EVISED LRE	SÜRVÉY
EDITION	DATE OF PHOTOGRAP	DAILOFF	TECU EUI	Ou. Ou	i. Miv. Mv.	DEINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01153

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 map 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 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 September 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 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.

NOAR

Edward J. Mckay 1112 0110

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:

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CPM133 - Pacific Photo Party

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

Project CM-8200, TSN No: 315 thru 365 i

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 td 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./Solbeck

Approved and Forwarded:

Don O. Norman

Chief, Aerotriangulation Unit

Don O. Horman

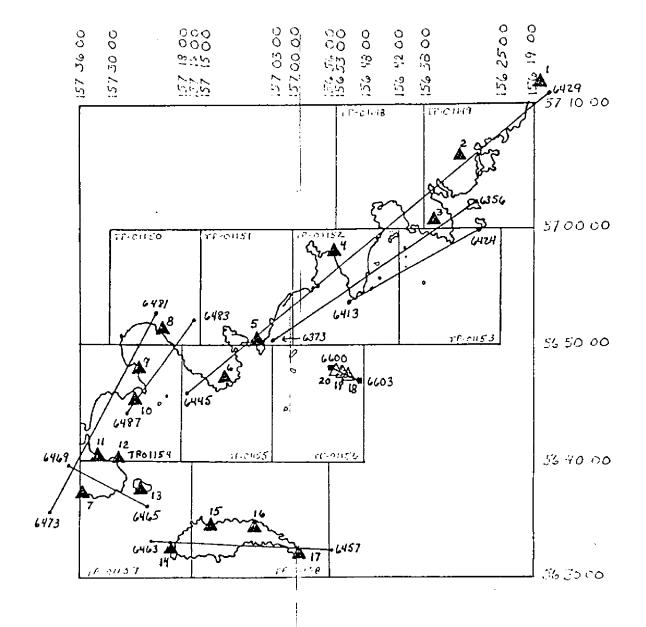
CIN 8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BRIDGING PHOTOGRAPHS

• 82 B (c) 1: 50000

■ 82B(c) 1:12000

A HORIZONTAL CONTROL:

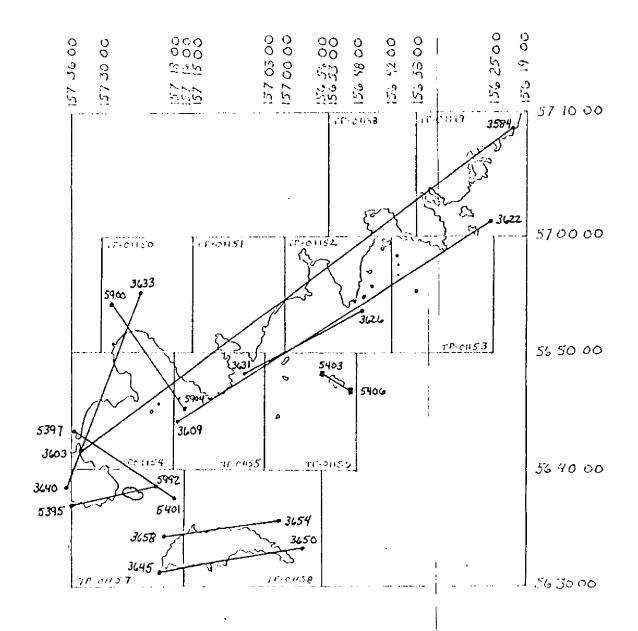


CM 8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BLACK AND WHITE INFRARED PHOTOGRAPHS MHW

· 83 B(R) 1:50000

* 83 B (R) 1:12000

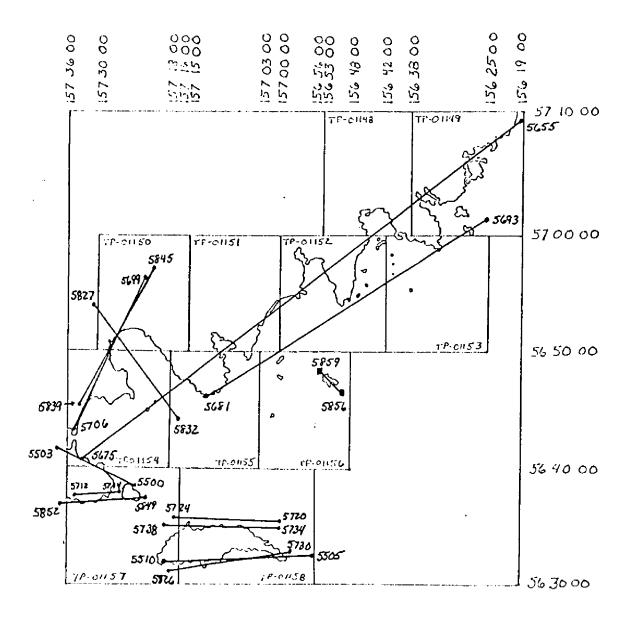


CIN-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

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	(442109)
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	8LU, 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 i</u>	n Feet
	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
	356303 △	.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

		3		
		365801	.948	1.272
		365802	842	433
		365803	458	873
STRIP #8				
TIES FROM	#6	413801	026	.789
	#6	413802	191	2.415
	#6	413803△	-1.430	1.784
	·#6	413804	566	.704
	#6	413805	-3,305	.638
TIE FROM	#7	413806	407	-2.578
	#7	413807	.371	638
	#7	413308	-2.094	.115
	#7	414801	3.171	452
	#7	414802△	2.085	-1.015
	#7	414803	3.397	-4.059
TIE FROM	#6	360801△	2.766	-1.955
	#6	360802	1.186	1.216
	#6	360803△	-2.546	019
TIE FROM	#7	416801	2.708	3.426
	#7	416802△	1.537	1.787
	#7	416803	989	915
TIE FROM	#6	417801△	-3.838	1.437
	#6	417802	-3.929	1.244
TIE FROM	#7	417804△	.109	675
	#7	417805	753	.041
	#7	417806	479	108
	#7	417807	-1.098	992
PORT, 194	4	435100△	016	-1.680
TIE FROM	#7	419801△	1.225	138
	#7	419802	2.174	-1.229
	#7	419803	.490	1.077
TIE FROM	#6	356801△	1.294	1.127

٠.

			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>Co</u> 1	or Br	ridgi	ng Photograp	<u>ohs</u>	<u>Ratio Value</u>
82 B(C)	6356	thru	6365			2.565
	6413	11	6420			2.559
	6429	11	6445			2.567
	6457	41	6463			2.564
	6465	11	6469			2.569
	6473	ti	5481			2.568
	6483	11	6487			2.562
	6600	16	6603	(1:12,000)		.608
1:50,000) Blac	ck-and	d Whi	te-Infrared	Photographs-MHW	
83 B(C)	3584	thru	3603			2.538
	3609	н	3622		··	2.535
	3626	н	3631			2.543
	3633	0	3640			2.538
	3644	**	3650			2.537
	3654	н	3658		·	2.539
	5392	u	5395			2.573
	5397	11	5401			2.571
	5403	(1	5406	(1:12,000)		.606
1:50,000) Blac	ck-and	d-Whi	te Infrared	Photographs-MLLW	
83 B(R)	5500	thru	5503			2.491
. ,	5505	н	5510			2.487
	5655	19	5675			2.497
	5681	n	5693			2.500
	5699	14	5706			2.500
	5712	14	5714			2.503

83 B(R) 5720	thru 572	4	2.503
5726	" 573	0	2.504
5734	" 573	8	2.502
5827	" 583	2	2.538
5839	" 584!	5	2.557
5849	" 585	2	2.545
5856	" 585	9 (1:12,000)	.584
1:30,000 Colo	r Compile	ation Photographs	
82 B(C) 6606	thru 661	5	1.531
6624	" 662	6	1.532
6649	" 665	9	1.526
6660	" 666	1	1.526
6665	" 667	6	1.530
6693	" 670	3	1.529
6708-	09, 6711	-13, 6715-18	1.532
6885			1.524
8438	thru 844	2	1.527
8444	" 844	7	1.526
8467	" 847	3	1.520
8484	" 848	7	1.533
8490-	93, 8495	-96	1.529
8503	thru 850!	5	1.523
8515	" 852	2	1.536
8576	" 858	4	1.500
8651	" 865	6	1.531

Compilation Report

TP-01153

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 MLLW line, ledges, and additional rocks which may not have been visible on the color bridging photographs because of the difference in water level. Complete photo coverage was not provided for this manuscript. Consequently, no detail could be compiled south of a line from approximately 56°53'N/156°42'W to 56°57'N/156°25'W. There appears to have been some confusion during the bridging phase relating to photo numbers and control point numbers associated with photos 82B(C) 6418, 6420, and 6422. The transparencies are printed with frame numbers 6418, 6420, and 6422 but the contact prints have been renumbered 6416, 6417, and 6418 respectively. The bridge points are numbered to correspond with the contact print serial numbers rather than the transparency numbers. Hence, transparency 82B(C) 6418 is drilled at points which are numbered 416310, 416320, and 416330. Transparency 82B(C) 6420 is drilled at points numbered 417310, 417320, 417330 and transparency 82B(C) 6422 is drilled at points recorded as 418310, 418320, and 418330.

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) 3618 thru 3622 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 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. As noted in item 31 above, detail south of a line extending from 56°53'N/156°42'W to 56°57'N/156°25'W could not be compiled due to lack of photo coverage.

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 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-3), Alaska, 1954, 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, 1:106,200 scale.

Items to be applied to Nautical Charts immediately: None

Submitted by,

Daniel C. Holeski

Daniel C. Holoske

March 6, 1985

Approved:

James R Minton

Jame R. Mintan

Acting Chief, Photogrammetric Section

March 13, 1985

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01153

Cape Providence Chiginagak Bay Navy Island Shelikof Strait

Approved:

Charles E. Harrington Chief Geographer Nautical Charting Division

REVIEW REPORT SHORELINE TP-01153

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: Sutwik Island (D-3), Alaska, dated 1954, scale 1:63,360 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 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

Approved,

Chief, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

TO:

N/MOP - Robert L. Sandquist

FROM: ON/CG2 - J. Austin Yeager Vel. 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.

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
1954	157°31'53.263 <u>"</u>	157°31'54.285"	1.022*	17.40

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

CODE	SURNAME	DATE,	CODE	SURNAME	DATE
N/CG23	Wirdt	9/1/2	6	1	<u> </u>
N/CG23	Brewen	9/17			
		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

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, from recommendations made under "Comparison with Charts" in the Rev

CHART	DATE	CARTOGRAPHER	REMARKS
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