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-01155 One
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 KUNMIK
19 ₈₂ TO 19 ₈₃
REGISTERED IN ARCHIVES
DATE

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMI	ERCE TYPE OF CURING
NATIONAL OCEANIC AND ATMOSPHERIC A	DMIN. TYPE OF SURVEY SURVEY TP. 01155
	ORIGINAL MAPEDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLASS III Final
	1
PHOTOGRAMMETRIC OFFICE	D REVISED JOB XXX CM 8200
Pacific Marine Center	LAST PRECEEDING MAP EDITION
Seattle, Washington	TYPE OF SURVEY JOB PH
OFFICER-IN-CHARGE	ORIGINAL MAP CLASS
Dovid M. Voomen	RESURVEY SURVEY DATES:
David W. Yeager	19TO 19
I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Aerotriangulation Feb. 15, 198	84 Field Feb. 5, 1982
Office July 24, 198	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
II. DATUMS	
I. HORIZONTAL: \$\forall 1927 NORTH AMERICAN	OTHER (Specify)
E TOUT TO THE AMERICAN	None
MEAN HIGH-WATER	OTHER (Specify)
2. VERTICAL: MEAN LOW-WATER X MEAN LOWER LOW-WATER]
MEAN SEA LEVEL	None
3. MAP PROJECTION	4. GRID(\$)
m 25	STATE ZONE
Transverse Mercator	Alaska 6
5. SCALE	STATE ZONE
1:20,000 III. HISTORY OF OFFICE OPERATIONS	
OPERATIONS 1. AEROTRIANGULATION	NAME DATE
METHOD: Analytic LANDMARKS AND AIDS	BY S. Solbeck April 1984 D. Norman April 1984
2 CONTROL AND DOUBLE TO WELL	
METHOD: Calcomp 718 plotter CHECKED	704
3. STEREOSCOPIC INSTRUMENT PLANIMETRY	D Putlon 1904
COMPILATION CHECKED	794
INSTRUMENT: Wild B-8 Stereoplotter contours	
SCALE: 1:20,000 CHECKED	
4. MANUSCRIPT DELINEATION PLANIMETRY	Dec. 1984
CHECKED	
метнор: Smooth drafted, graphic contours	
MLLW lineCHECKED	
SCALE: 1:20,000	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	
	BY N.A.
6. APPLICATION OF FIELD EDIT DATA CHECKED	
7. COMPILATION SECTION REVIEW Class III	By J. Minton July 1985
8. FINAL REVIEW	By L. O. Neterer, Jr. Oct. 1985
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY L. O. Neterer, Jr. Dac 1985
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY P. Dempsey Jan 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY E. DAUGITERTY FEB 1986

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

TP-01155

COMPILATION SOURCES										
1. COMPILATION PHO	TOGRAPHY									
CAMERA(S) Wild R.C. 10 "	'B" (152	.74 mm	F.L.)	TYPE	S OF PH	OTOGRAPHY IND		TIM	E REFERE	ENCE
TIDE STAGE REFERE				(C) COL	_OR			ZONE		
XXPREDICTED TIDES					CHROM.	ATIC		laska		XXSTANDARD
REFERENCE STAT				(1) INF	RARED		MER	IDIAN		DAYLIGHT
NUMBER AND	TYPE		DATE	TIME	. T	SCALE		şT.	AGE OF T	IDE
82B(C)6372 and	6373	Tul	.19,1982				Δ %	6 ft :	above N	AT T.W
82B(C)6442 thr			19,1982	10:54	,	1:50,00			above 1	
~~					•					
83B(C)5681 thr			, 26, 1983	`9:34		1:50,00			above N	
83B(C)5669 thr	ա 5671	Aug	, 26, 1983	9:09	"	1:50,00	0 01	.0 ft.	above	MLLW
		-								
REMARKS					i		<u>l</u>			
REMARKS Tide levels we	re calc	ulated	l for Anch	norage I	Bay su	bordinate	stat.	ion us:	ing Kod	liak as
the reference	station	. Mea	ın High Wa	ater is	8.1 f	eet above	Mean	Lower	Low Wa	iter.
2. SOURCE OF MEAN	HIGH-WATI	R LINE:						-		
The Mean High	Water L	ine wa	s compile	ed on a	Wild	B-8 Stere	oplot	ter us:	ing the	
color photogra							•		Ū	
								•		
3. SOURCE OF MEAN	LOW-WATE	R OR ME	AN LOWER LO	W-WATER I	INE:					
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The Mean Lower										
enlargements 1 points which w					_				_	
described in i			-		_	•				
enlargement ra		above		ic acca		crocraans		on rop	010 20.	
y										
4. CONTEMPORARY	HYDROGRA	PHIC SUR	EVEYS (List o	nly those s	wava th	at are sources fo	or nhotad	remmetric	survey inf	ormation.)
			SURVEY COP			Y NUMBER	,			COPY USED
SURVEY NUMBER	DATE(S)		JURVET COP	, OSED	30.77 =	, NUMBER	DATE(S	''	Janvet	SUP TOSEU
5. FINAL JUNCTIONS	<u> </u>									
мо кт н ТР-01150	,	EAST			SOUTH			WEST		,
TP-01151, TP-0	1152	No	ne		TP-	01157 & T	P-011	58 T	P-01154	+
REMARKS										}
										ļ

10AA FORM 76-36C 3-72)	TP-01155 HISTORY OF FIELD		U, S. DEPARTME NIC AND ATMOSPHERIC NATIONA	NT OF COMMERCE ADMINISTRATION OF ADMINISTRATION OF AN SURVE
I. 😨 FIELD INSPECTIO	ON OPERATION (premarking) FIEL	D EDIT OPERATION		··- ·
	OPERATION		NAME	DATE
. CHIEF OF FIELD PA	PTV			
II SINCE OF FICED FX		R. Melby		June 1982
. HORIZONTAL CONTE	RECOVERED BY SOL ESTABLISHED BY	None		June 1982
	PRE-MARKED OR IDENTIFIED BY	L. Riggers		June 1982
	RECOVERED BY	N.A.	•	June 1702
, VERTICAL CONTROL	ESTABLISHED BY	N.A.		
	PRE-MARKED OR IDENTIFIED BY	N.A.		
_	RECOVERED (Triangulation Stations) BY	_None		
 LANDMARKS AND AIDS TO NAVIGATION 	LOCATED (Field Methods) BY	None		
	TYPE OF INVESTIGATION	None		
. GEOGRAPHIC NAMES	COMPLETE			<u> </u>
INVESTIGATION	SPECIFIC NAMES ONLY]
<u> </u>	X NO INVESTIGATION			
PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None	-	
BOUNDARIES AND LI	MITS SURVEYED OR IDENTIFIED BY	N.A.	3,000	<u> </u>
. SOURCE DATA . HORIZONTAL CONTE	ROLIDENTIFIED and paneled	2. VERTICAL CON N.A.	TROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	GNATION
K	ՄNMIK, 19ԱԱ			
. PHOTO NUMBERS (C	latification of details)			
None	ŕ			
None	DS TO NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	ÓBJECT I	NAME
			·	
. GEOGRAPHIC NAMES	: REPORT X NONE	6. BOUNDARY AN	D LIMITS: REPOR	T X NONE
. supplemental ma				<u> </u>
OTHER FIELD RECO	RDS (Sketch books, etc. DO NOT list data submi	tted to the Geodesv D	ivision)	
Field Operation	ons Report and NOAA Forms 76-5		·	

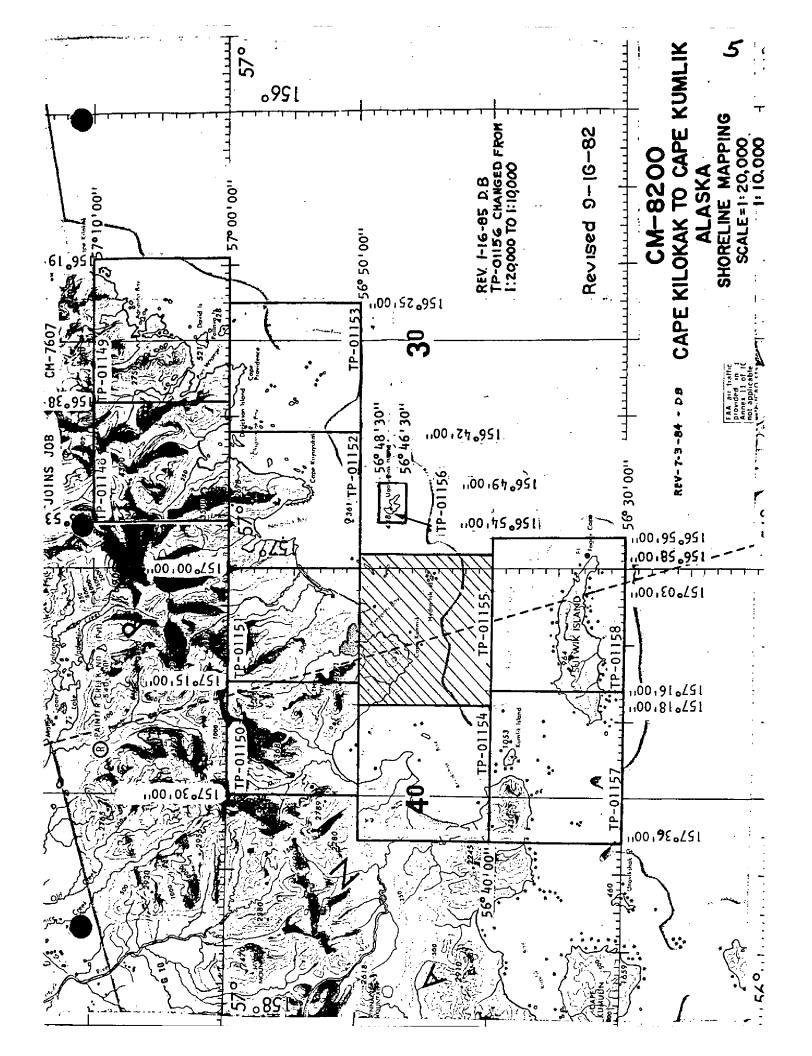
NOAA FORM 76-36D

(3-72)

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

TP-01155 RECORD OF SURVEY USE

		RECO	ORD OF SURVE	Y USE			-	
I. MANUSC	CRIPT COPIES							
	CO	MPILATION STAG	ES			DATE MANUSC	RIPT FORWAR	DED
	DATA COMPILED	DATE	RE	MARK5		MARINE CHART	S HYDRO SUP	PORT
Class comple	III Compilation te	July 1985	Class III	Manuscri	pt			
Final	Reviewed	Oct. 1985	Final Clas	s III Ma	P	16/12/85	16/2/8	-5
								:
	· · · · · · · · · · · · · · · · · · ·							
	ARKS AND AIDS TO NAVIGA	1,0110						
1. REP	ORTS TO MARINE CHART DI	VISION, NAUTICAL	L DATA BRANCH					
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	ļ		REMA	RK5	<u>.</u>	
		*						
<u>.</u>								
	·							'
=	REPORT TO MARINE CHART REPORT TO AERONAUTICAL						D:	
III. FEDEI	RAL RECORDS CENTER DAT	A	•					
2. 🔀	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G	FICATION CARDS;	FORM NO	5 567 SUBMIT	TED BY	FIELD PARTIE	s.	
	ACCOUNT FOR EXCEPTION	S:						
4 🗀	DATA TO FEDERAL RECOR	DS CENTER. DA	TE FORWARDED:			· · · -		
IV. SURVI	EY EDITIONS (This section si			edition is reg				
SECOND	TP -	(2) PH -	ER .		REV	YPE OF SURVE	Y ESURVEY	
EDITION	DATE OF PHOTOGRAPH		IELD EDIT		□ in.	MAP CLASS	. 🗆 FINAL	
	SURVEY NUMBER	JOB NUMBE	ĒR			YPE OF SURVE		
THIRD	TP	(3) PH			REV	ISED R	ESURVEY	
EDITION	DATE OF PHOTOGRAPH	Y DATE OF F	TELD EDIT	□ n.	Шш.	MAP CLASS	. OFINAL	
•	SURVEY NUMBER	108 ИЛМВЕ	(R			YPE OF SURVE	Y	$\neg \neg$
FOURTH	-	(4) PH			REV	ISED R	ESÜRVÉY	
EDITION	DATE OF PHOTOGRAPH	Y DATE OF F	TELD EDIT	□	□	MAP CLASS	□ FINAL	



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01155

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.

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:

CPMI33 - 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.

NORR

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 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.

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-

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. Norman

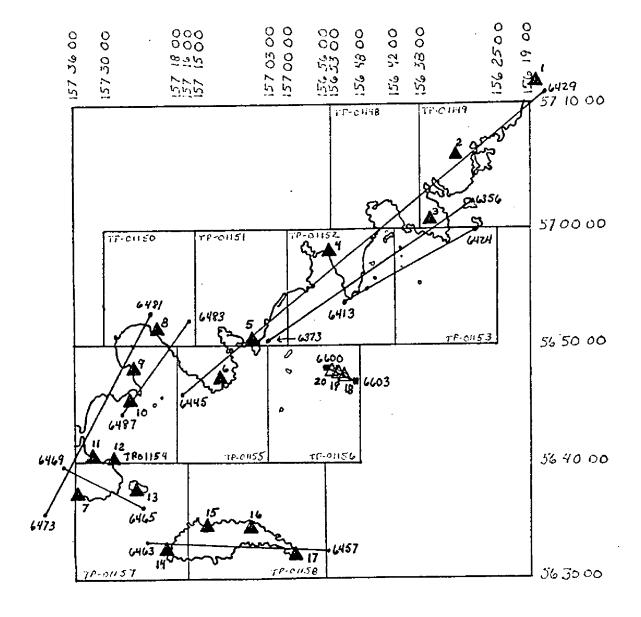
CM-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BRIDGING PHOTOGRAPHS

• 82 B (c) 1: 50000

■ 82B(4) 1:12000

▲ HORIZONTAL CONTROL

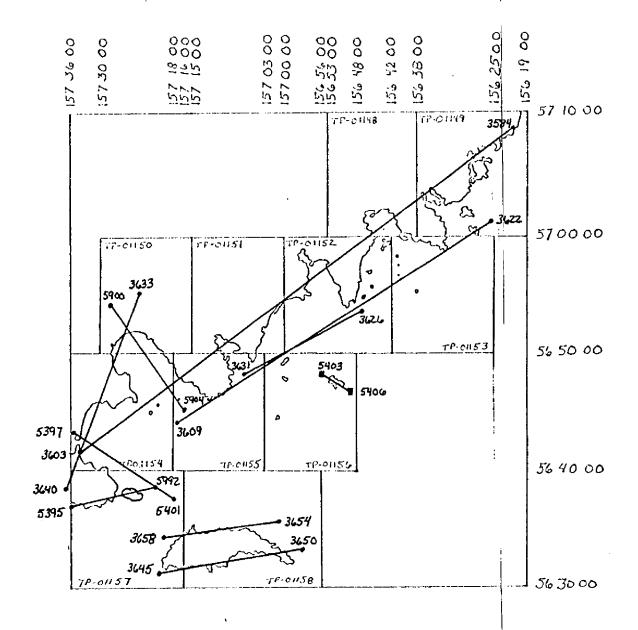


CM-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

BLACK AND WHITE INFRARED PHOTOGRAPHS MHW

· 83 B(R) 1:50000

■ 83 B (R) 1:12000

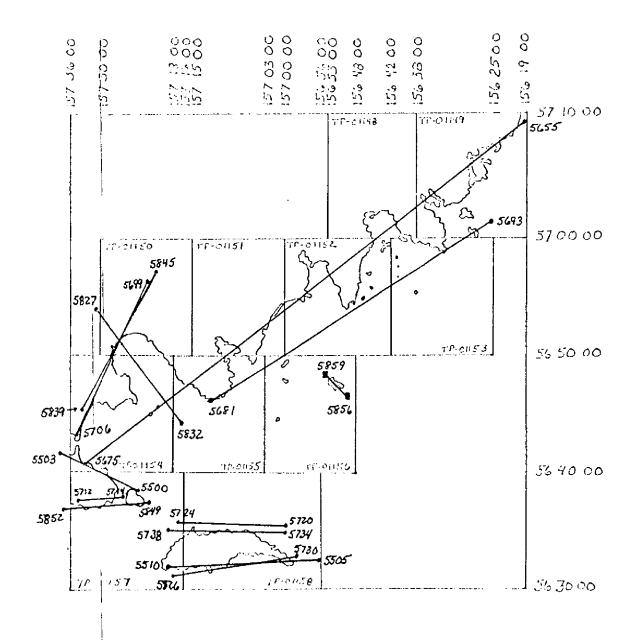


CIN-8200 CAPE KILOKAK TO CAPE KUMLIK ALASKA

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	(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		Values	in 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	461109△	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 Poinț	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
ļļ	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
İ	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	413808	-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 Δ	-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

		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

 Δ STATIONS HELD IN THE STRIP ADJUSTMENTS

Ratio Values

CM-8200

Cape Kilokak to Cape Kumlik, Alaska

1:50,000	Colo	r Br	ridging Photographs	Ratio Value
82 B(C)	6356 t	hru	6365	2.565
	6413	U	6420	2.559
	6429	Ð	6445	2.567
ı	6457	18	6463	2.564
ı	6465	11	6469	2.569
	6473	11	5481	2.568
	6483	11	6487	2.562
	6600	11	6603 (1:12,000)	.608
1:50,000	B1ack	-and	White-Infrared Photographs-MHW	
83 B(C)	3584 t	hru	3603	2.538
	3609	Ц	3622	2.535
	3626	10	3631	2.543
	3633	11	3640	2.538
	3644	U	3650	2.537
	3654	O .	3658	2.539
ļ	5392	10	5395	2.573
:	5397	it	5401	2.571
!	5403	II	5406 (1:12,000)	.606
1:50,000	Black	-and	-White Infrared Photographs-MLLW	
83 B(R)	5500 t	hru	5503	2.491
:	5505	u	5510	2.487
!	5655	u	5675	2.497
!	5681	п	5693	2.500
!	5699	U	5706	2.500
:	5712	u	5714	2.503

83 B(R) 5720 thru	ı 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 Co	ompilation Photographs	
82 B(C) 6606 thru	ı 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	t d	1.524
8438 thr		1.527
8444 "	844 7	1.526
8467 "	8473	1.520
8484 "	8487	1.533
8490-93,	8495 96	1.529
8503 thr		1.523
8515 "	8522	1.536
8576 "	8584	1.500
8651 "	86 þ 6	1.531

NOAA FORM 76-41				U.S. NATIONAL OCEANIC AND AT	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	117
TF-01155	CM-8200		North American 1927	Photogrammetric	ic Sec., Seattle, WA
	SOURCE OF	AEROTRI-	COORDINATES IN FEET	٠ ا	
STATION NAME	INFORMATION (Index)	POINT NUMBER	ZONE	φ LATITUDE λ LONGITUDE	REMARKS
KUMIK, 1944	G.P. Vol V	444100	=χ	φ 56 ⁰ 47'03,352"	
	Pg. 34		<i>h</i> =	λ157 ⁰ 11'16.912"	
			χ=	-6-	
			<i>y=</i>	γ	
			χ=	6	
			=ĥ	7	
			=χ	. ф	
			=ħ	Υ.	
			-χ	ф	
			ήε	γ	
			πχ	φ.	
			zĥ.	γ	
			=χ	φ	
			=ĥ	γ	
			=X	φ	
			<i>у</i> =	γ	,
			χ=	9	
			y=	γ	
			-χ=	ф	
			y=	~	
COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY V. McNeel		DATE 08/25/82	LISTING CHECKED BY		DATE 08/25/82
HAND PLOTTING BY		DATE '	HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	RSEDES NOAA FORM 78-41, 2-71 EDITION WHICH IS OBSOLETE.	H IS OBSOLETE.	

Compilation Report TP-01155

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°50'N/156°59'W to 56°44'N/157°12'W.

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) 3609 through 3612 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. Two offshore islands located at approximately 56°49'N/157°00'W and 56°47'45"N/157°00'W were not compiled due to the lack of photo coverage.

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-4), Alaska, 1963, 1:63,360 scale 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, 1:106,000 scale.

Items to be applied to Nautical Charts immediately: None

Submitted by. Daniel C. Holeski

Daniel C. Holeski Cartographer

July 24, 1985

Approved:

James R. Minton

Acting Chief, Photogrammetric Section

James R. Minton

July 25, 1985

GEOGRAPHIC NAMES

FINAL NAME SHEET

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

TP-01155

Alaska Peninsula Amber Bay Cape Kunmik Shelikof Strait Yantarni Bay

Approved:

Charles E. Harrington

Chief Geographer Nautical Charting Division

REVIEW REPORT SHORELINE

TP-01155

61 - GENERAL STATEMENT

See Summary included with this report.

The limits of photo coverage as stated in the compilation report are incorrect. The approximate limit of photo coverage is latitude 56°46' longitude 156°58' southwest to latitude 56°43' longitude 157°11' which includes two islands that were not compiled in 1984. The islands were compiled by the Atlantic Marine Center Coastal Compilation Unit in October 1985. Hydra Island at latitude 56°44' longitude 157°01' has no photo coverage and therefore was not compiled.

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-3), Alaska, dated 1954, Sutwik Island (D-4), 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.

TP-01155

Submitted by

Lowell O. Neterer, Jr.

Final Reviewer October 15, 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:

N/CG2 - J. Austin Yeager L. 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"	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
N/CG23	1 Windst	4/1/8	6		
N/CG23	Breave	8/17]
		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	REMARK\$
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FORM COGS-5352 SUPERSEDES ALL EDITIONS OF FORM CAGS-516.

USCOUNT DC 8886-P48