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-01186 1
Job No.
СМ-8207
Map Classification
CLASS III (FINAL)
Type of Survey SHORELINE
LOCALITY
State
ALASKA
General Locality
TOGIAK BAY TO CAPE CONSTANTINE
Locality SUMMIT ISLAND
SUPELL ISLAND
19 ₈₃ TO 19
REGISTERED IN ARCHIVES
DATE

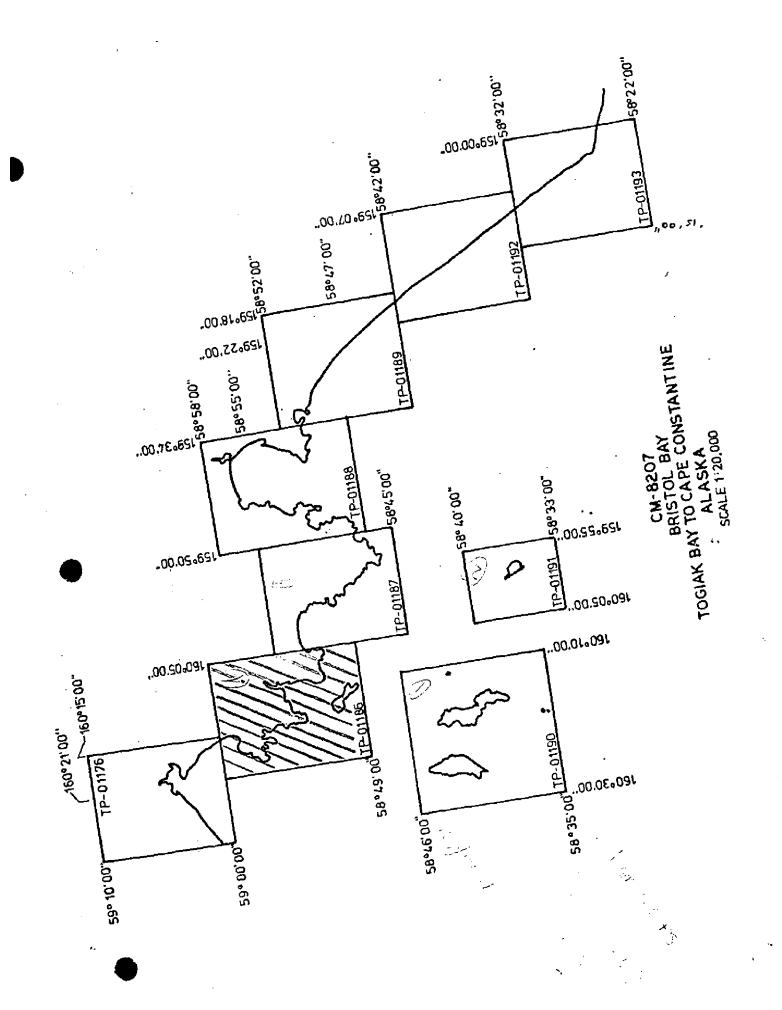
NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE			011.96
(3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY T	01186
	ORIGINAL	MAP EDITIO	N NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	III (Final)
	REVISED		M-8207
PHOTOGRAMMETRIC OFFICE			
Coastal Mapping Unit, Atlantic Marine	LAST PRECEED		
Center, Norfolk, VA	TYPE OF SURVEY	X	H
OFFICER-IN-CHARGE	ORIGINAL RESURVEY	1	
	RESURVEY	SURVEY DA	
A. Y. Bryson, CDR	D KEAISED	19TO 19	
I. INSTRUCTIONS DATED			
1. OFFICE	2,	FIELD	
Aerotriangulation August 13, 1985	Control	March	25, 1983
Office March 18, 1986			
·			
1			
II. DATUMS	· · · · · · · · · · · · · · · · · · ·		
1. HORIZONTAL: XX 1927 NORTH AMERICAN	OTHER (Specify)		
MEAN HIGH-WATER	OTHER (Specify)		
2. VERTICAL:			
MEAN LOWER LOW-WATER			
3. MAP PROJECTION		GRID(S)	
i	STATE	ZONE	
Transverse Mercator Projection	Alaska	6	•
5. SCALE	STATE	ZONE	
11:20,000		<u> </u>	
III. HISTORY OF OFFICE OPERATIONS	 	 -	
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY	L. Harrod		Sept 1985
	L. Harrod		Sept 1985
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Xynetics 1201 CHECKED BY	F. Mauldin		Jan 1986 Jan 1986
	F. Mauldin R. Kravitz		Feb 1986
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. Neterer		Feb 1986
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.		
\$CALE: 1:20,000 CHECKED BY	N.A.		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	R. Kravitz		Feb 1986
CHECKED BY	F. Mauldin		Mar 1986
CONTOURS BY	N.A.		
METHOD: Smooth drafted	N.A.		
HYDRO SUPPORT DATA BY	R. Kravitz		Feb 1986
1 scale: 1.20 000			Mar 1986
scale: 1:20,000 CHECKED BY	F. Mauldin		
5. OFFICE INSPECTION PRIOR TO KNEXENEXINFINAL REVIEWSY	F. Mauldin F. Mauldin		Mar 1986
5. OFFICE INSPECTION PRIOR TO KNEXE SECRET FINAL REVIEWS 6. APPLICATION OF FIELD EDIT DATA	F. Mauldin F. Mauldin N.A.		
5. OFFICE INSPECTION PRIOR TO KDEXES EXEKTIONAL REVIEWSY 6. APPLICATION OF FIELD EDIT DATA CHECKED BY	F. Mauldin F. Mauldin N.A. N.A.		Mar 1986
5. OFFICE INSPECTION PRIOR TO KNEXEXECUTEFINAL REVIEWSY 6. APPLICATION OF FIELD EDIT DATA 7. COMPILATION SECTION REVIEW Class III BY	F. Mauldin F. Mauldin N.A. N.A. F. Mauldin	n	Mar 1986 Mar 1986
5. OFFICE INSPECTION PRIOR TO KNEXEXECUTE FINAL REVIEWS 6. APPLICATION OF FIELD EDIT DATA 7. COMPILATION SECTION REVIEW Class III BY 8. FINAL REVIEW Class III BY	F. Mauldin F. Mauldin N.A. N.A. F. Mauldin L. O. Neterer, J.	6	Mar 1986 Mar 1986 Apr 1986
5. OFFICE INSPECTION PRIOR TO KNEXEXECUTEFINAL REVIEWSY 6. APPLICATION OF FIELD EDIT DATA 7. COMPILATION SECTION REVIEW Class III BY	F. Mauldin F. Mauldin N.A. N.A. F. Mauldin	6	Mar 1986 Mar 1986

NOAA FORM 76-36B 3-72)		,	TP-0118	36 NATIONAL OCEAN	U.S. DEPARTMEN IC AND ATMOSPHERIC NATIONA	IT OF COMMERC ADMINISTRATIC LOCEAN SURVE
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1. COMPILATION PHO	DTOGRAPHY					
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TIDE STAGE REFERE XX PREDICTED TIDE REFERENCE STAT TIDE CONTROLLE	s * TIÓN RÉCORDS	Y	(C) COLOR (P) PANCHROMATIC (I) INFRARED		Alaska MERIDIAN 150°W	XX STANDAI
NUMBER AND	TYPE	DATE	TIME	SCALE	STAGE OF	TIDE
33B (C) 5087-508 33B (C) 5813-581	I	07-31-83 08-27-83	10:53 14:36	1:50,000	4.2 ft. above 4.1 ft. above	
					Mean tide ran	~a ~7 6 fi
REMARKS *Compil	ation/bride	ring photogr	raphs based	l on predicted	l tide data, us	
ence station	Nushagak Ba	y and subor	rdinate sta	tion Black Ro	ock (Walrus Isl	ands).
					erpretation of stereo instru	
3. SOURCE OF MEAN	N LOW-WATER OF	MEAN LOWER L	OW-WATER LINE	:		
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There w	as no mean	lower low v	water line	compiled on t	nis map.	
			·			information.)
			only those survey	's that are sources for	photogrammetric survey	information.)
4. CONTEMPORARY	HYDROGRAPHIO	: SURVEYS (List	only those survey	's that are sources for	photogrammetric survey	
4. CONTEMPORARY	HYDROGRAPHIC DATE(S)	SURVEYS (List	only those survey	's that are sources for	photogrammetric survey	

TP+01176
REMARKS

NOAA FORM 76-36C (3-72)				NATIONAL OCEA	U.S. NIG AND AT	MOSPHERIC A	OF COMMERCI DMINISTRATION OCEAN SURVE
		HIS	TP-01186 TORY OF FIELD	OPERATIONS		MATIONAL	OCEAN 3GRVE
I. ⊠¥FIELD± kt\$€ Æ	. Extrict Data Programmer [Premarking]						
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1. CHIEF OF FIEL	D DARTY						
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2. HORIZONTAL CO	ONIROL	DDC.MARKED	ESTABLISHED BY	R. Melby			Jul 1983
		- RE-WARRED	RECOVERED BY	N.A.			001 1303
3. VERTICAL CON	TROL		ESTABLISHED BY	N.A.			
		PRE-MARKED	OR IDENTIFIED BY	N.A.			
		ECOVERED (Trian	gulation Stations) BY	N.A.			
4. LANDMARKS AN	D	,	D (Field Methods) BY	N.A.			
AIDS TO NAVIGATION IDENTIFIED BY				N.A.			
		TYPE OF I	NVESTIGATION				
5. GEOGRAPHIC NA		COMPL	64			1	
INVESTIGATION			FIC NAMES ONLY)		Ì	
			ESTIGATION	 			
6. PHOTO INSPECT			ION OF DETAILS BY	N.A.			
7. BOUNDARIES AN	ID LIMITS	SURVEYED	OR IDENTIFIED BY	IN.A.			
I. HORIZONTAL CO	ONTROL ID	ENTIFIED		2. VERTICAL CON	TROL IDEN	TIFIED	
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	None						
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			-				
5. GEOGRAPHIC N	AMES:	REPORT	KX NONE	6. BOUNDARY AN	ID LIMITS:	REPORT	KX NONE
7. SUPPLEMENTA	L MAPS AND			- -			
·		ketch books, etc. D	O NOT list data submi	tted to the Geodesy L)ivision)	·	
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NOAA FORM (3-72)	м 76-36D			TP-01186 NA	TIONAL OCE	ANIC A	U. S. DEPARTME	NT OF COMMERCE
14-7-7				RD OF SURVEY	r use			
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I. MANUSCI	RIPT COPIES	MOILA	TION STAGES	<u> </u>		<u>_</u>	DATE MANUSCE	RIPT FORWARDED
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Compil:	ation complete	Mar	r. 1986	Class III	Manuscri	.pt	None	None
Final	Reviewed	Apr	r. 1986	Final Clas	ss III		July 17, 1586	July 17,1986
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II. LANDM	ARKS AND AIDS TO HAVIGA	TION	No.	one				
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2. 🔲 🖰	REPORT TO MARINE CHAR	T DIVIS	SION, COAST	PILOT BRANCH.	DATE FORW	ARDED	None	
	REPORT TO AERONAUTICA		RT DIVISION	I, AERONAUTICAL	DATA SECI	ION. D	ATE FORWARDEL	<u>"</u>
III. PEVER	RAL RECORDS CENTER DA	IA						
ı. XX	BRIDGING PHOTOGRAPHS;	X x ;	DUPLICATE	BRIDGING REPO	<u> </u>	MPUTE	R READOUTS.	
	CONTROL STATION IDENT							;.
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4 🗀	DATA TO FEDERAL RECO	RDS CI	ENTER, DAT	TE FORWARDED:				
IV. SURVE	EY EDITIONS (This section	shall be			a edition is re			
	SURVEY NUMBER	(2)	рн -	£R.		$\overline{}$	TYPE OF SURVE	Y Esurvey
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EDITION	DATE OF PHOTOGRAP	HY	DATE OF F	TELD EDIT] □n.	Пш.	MAP CLASS □IV. □V.	. DFINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01186

This 1:20,000 scale map is one of nine maps that comprise project CM-8207, Bristol Bay, Cape Constantine to Togiak, Alaska latitude 58°22'00", longitude 159°00'00" west latitude 59°10'00" longitude 160°30'00", including the offshore Walrus Islands.

Photographic coverage was provided in August 1983 with color 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 July 1983 included the identification of horizontal control by premarking techniques to meet aerotriangulation requirements. There was no field inspection of the shoreline.

Analytic aerotriangulation was adequately performed at the Washington Science Center in September 1985. The manuscripts were ruled at the Atlantic Marine Center from data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center from office interpretation of the color photographs in March 1986.

Final Review was performed at the Atlantic Marine Center in April 1986. A Chart Maintenance Print and Hydro Print were prepared and forwarded to the Marine Charts Branch and Hydrographic Branch. This map is to be registered as a Final Class III map.

This Descriptive Report contains all pertinent information used to compile this Final Class III Map.

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

FIELD INSPECTION

TP-01186

There was no field inspection prior to compilation. Field work accomplished was limited to the recovery and identification of the horizontal control necessary for the aerotriangulation of the project.



U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration National Ocean Service Pacific Marine Center 1801 Fairview Avenue East Seattle, Washington 98102

August 11, 1983

N/MOP222/RBM

T0:

N/CG2313 - Howard D. Wolfe

Kobert B. Melly

FROM:

N/MOP222 - Robert B. Melby

SUBJECT: Photo, Field Operations Report, Job CM-8207, Bristol Bay, Togiak Bay

to Cape Constantine, Alaska, Shoreline Mapping

This report covers the shoreline area of the portion of Bristol Bay from Cape Constantine to the vicinity of the village of Togiak on Togiak Bay, Alaska.

Air photo panels were placed in each office-selected area and, when required, distances and directions were observed in the field to permit the computation of the coordinates of the substitute stations. Most of the stations were paneled direct.

Two additional 1:50,000 horizontal control photo panels were placed on Round Island. The diagram did not indicate a requirement for paneling on this island, although a control flight line was indicated. ROUND 1948 substitute station and ROUND 1948 AZ MK 1983 substitute station were the extra paneled stations.

Six points were paneled at 1:30,000 scale to permit the photo-location of these marks to determine their horizontal position. They could be used as hydrographic control stations in the future.

Each photo-panel has been entered on a form 76-53, Control Station Identification, with information pertinent to the involved station.

Four additional horizontal control stations were established by Third Order Class I methods in paneling areas that did not have an existing horizontal control station.



Photogrammetric Plot Report

Bristol Bay

Togiak Bay to Cape Constantine, Alaska

September 1985

21. Area Covered

This report covers the shoreline area of the portion of Bristol Bay from Cape Constantine to the vicinity of the Village of Togiak on Togiak Bay, Alaska. It is covered by nine 1:20,000 scale manuscripts; TP-01176 and TP-01186 through TP-01193.

22. Method

Seven strips of 1:50,000 scale, and one strip of 1:30,000 scale photography were bridged by analytic aerotriangulation methods and adjusted to ground based on the Alaska State Plane Coordinate System, Zone 6. Paneled control was provided. Strip 50-4 was measured on the NOSAP and was adjusted to ground using the GIANT program. All the other strips were measured on the STK comparator and adjusted to ground with the Analytic Program. Ratio values were determined for the bridging photography. No manuscripts were generated by this unit. Five hydrographic control stations were positioned from the 1:50,000 scale bridging photography. One station, TC-04, was not positioned.

23. Adequacy of Control

The control was adequate. The project meets NOS requirements.

Strip 30-11 was a 3 photo strip of Round Island on TP-01191. This strip was adjusted using two control stations. There were no check points.

24. Supplemental Data

Quads and charts were used.

25. Photography

The coverage and quality of the photographs proved adequate for the project. No MHW or MLW infrared photographs were available.

Submitted by:

Lloyd W. Harrod, Jr.

Approved and Forwarded:

Dor O. Horma

Don O. Norman

Chief, Aerotriangulation Section

Togiak Bay to Cape Constantine, Alaska

CM-8207

Fit to Control - X and Y in Feet

<u>Strip 50-1</u>	Point No.	<u>x</u>	<u>Y</u>
 ▲ 8. Kulukak 1948 ▲ 9. Dry Bay 1947 ▲ 10. Pike 1947 ▲ 11. Judith 1947 RM2 ▲ 12. See 1910 	(872100) (876100) (880100) (885101) (889100)	-1.5 3.1 6 -2.5 1.5	8 .3 2.4 -3.5 1.6
<u>Strip 50-3</u>			
 ▲ 8. Kulukak 1948 ▲ 7. Metervik ▲ 6. Metervik AZ MK 1983 ▲ 5. Right Hand 1948 	(872100) (054101) (055100) (057100)	.1 4 .3 0	1 .8 8 .1
<u>Strip 50-4</u>			
 1. Ekilik 1954 2. Togiak 1948 RM1 3. Owens 1948 ▲ 4. Nuna 1983 ▲ 5. Right Hand 1948 	(082100) (085101) (088100) (090100) (057100)	.4 3 -1.2 4 .4	1.3 -1.3 4.1 -1.0
Strip (A) 50-6			
▲Tie from Strip 50-4 ▲Tie from Strip 50-4	(809801) (809802) (809803) (810801) (810802) (810803) (811801) (811802) (811803)	-6.2 -1.0 1.1 3.4 3.7 6.5 -2.6 -4.7	-1.9 8 2.2 4 1 1.3 1.1 9 4

<u>Strip 50-6</u>			
▲ 3. Owens 1948 Tie from Strip 50-4 ▲ Tie from Strip 50-4 ▲ " " " " " " " " " " " " " " " " " "	(088100) (813801) (813802) (813803) (814801) (814802) (814803) (815801) (815802) (815803) (816801) (816802) (816803) (090100) (817801) (817802)	9 6.1 1.0 .2 7 1 -2.0 7.8 13.3 3.0 2.3 4.9 .7 2.2 -3.9 -2.4 -6.3	-2.5 3.5 1.2 1.4 3 .6 1.3 4.9 5.5 1.0 1.6 4.4 8 1.2 -1.1 -4.3 -6.3
Strip 50-7	(817003)	-0.3	-0.3
▲15. Crooked 1948 AZ MK ▲14. Crooked 1948 ▲13. High 1948 Strip 50-9	(104100) (105100) (107100)	-4.2 6.1 -1.9	4 4.3 -3.9
▲ 14. Crooked 1948 ▲ Tie from Strip 50-7 ▲ " " " " " " " " " " " " " " " " " "	(105100) (979801) (979802) (979803) (980801) (980802) (980803) (981801) (981802) (981803)	5.5 3.0 1.0 -2.1 -2.4 -2.4 -2.0 4.3 -5.0 5.7	3.7 .5 2.4 -4.8 1.8 -1.0 -2.5 5.0 -5.2

(468101) (469101)

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▲ Stations held in the Strip Adjustments

▲16. Round 1948 AZ MK Sub Pt. ▲17. Round 1948 Sub Pt.

Strip 30-11

Togiac Bay to Cape Constantine, Alaska . CM-8207

September 1985

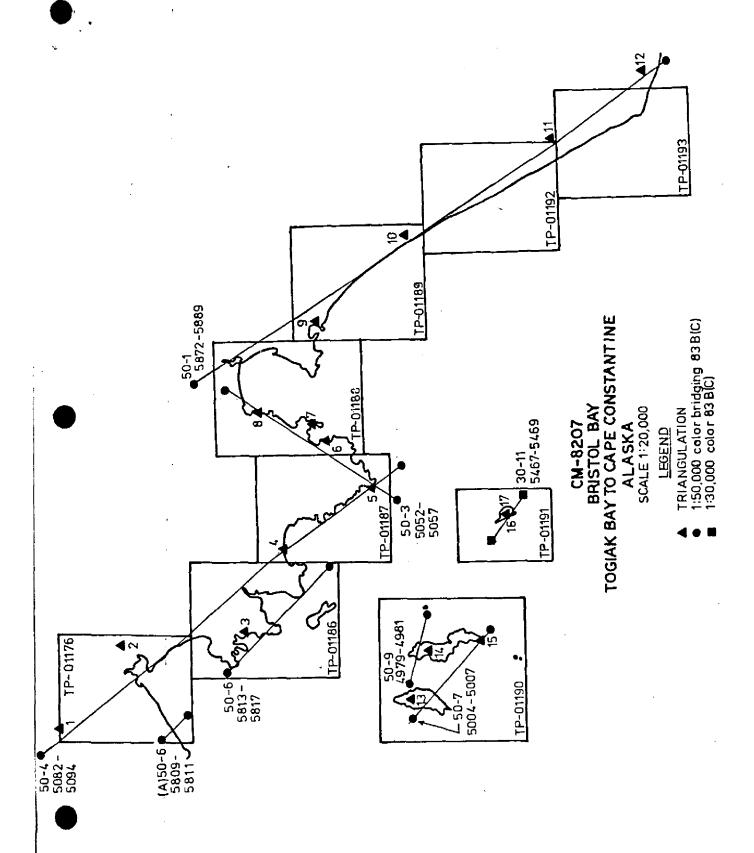
Ratio values for 1:50,000 scale color bridging photographs.

83-B-(C) 4978-4981	X 2.55
5004-5007	X 2.52
5052-5057	X 2.55
5082-5094	X 2.56
5813-5817	X 2.51
5872-5889	X 2.53

Ratio values for 1:30,000 scale color bridging photographs.

83-B-(C) 5467-5469

X1.50



NOAA FORM 76-41				S.U.	U.S. DEPARTMENT OF COMMERCE
	;	DESCRIPTIV	DESCRIPTIVE REPORT CONTROL RECORD		TMOSPHERIC ADMINISTRATION
MAP NO.	JOB NO.		GEODETIC DATUM	ORIGINATING ACTIVITY	0000+01
TP-01186	CM-8207	07	N.A. 1927		- C
		AEROTRI-	COORDINATES IN FEET		
STATION NAME	INFORMATION (Index)	ANGULATION POINT NUMBER	STATE 6	φ LATITUDE λ LONGITUDE	REMARKS
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATÉ
LISTED BY R. Kravitz		DATE 2/13/86	LISTING CHECKED BY F. Mauldin		DATE 3/4/86
HAND PLOTTING BY			HAND PLOTTING CHECKED BY		DATE
		SUPERSEDES NO	EDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.	H IS OBSOLETE,	

COMPILATION REPORT TP-01186

31 - DELINEATION

Delineation was accomplished using stereo instrument compilation methods. Instrument compilation was used to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. All photographs used to compile this map are listed in NOAA form 76-36B. The photography was adequate; however, in some areas glare on the water made the selection of offshore rocks difficult. There are no mean lower low water infrared photographs for this project.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report, dated September 1985.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to this project. Drainage was compiled from office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAIL

The mean high water line was compiled from office interpretation of the compilation/bridging color photographs as described in item #31. There was no mean lower low water line compiled on this project.

36 - OFFSHORE DETAILS

Offshore details were compiled by instrument methods as described in item #31.

37 - LANDMARKS AND AIDS

There are no landmarks or aids to navigation within the limits of this manuscript.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5, of the Descriptive Report.

TP-01186

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles and U.S. Coast and Geodetic Survey topographic maps: Hagemeister Island (D-1), Alaska; dated 1952; scale 1:63,360 (USGS) T-9237; scale 1:20,000; compiled 1950 and 1951 (USC&GS) T-9242; scale 1:20,000; compiled 1950 and 1951 (USC&GS).

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following National Ocean Service Charts:

16011; 31st edition, dated June 29, 1985; scale 1:1,023,188 16315; 1st edition, dated May 9, 1985; scale 1:100,000 (provisional).

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

Robert R. Kravitz

Cartographic Technician 27 February 1986

Approved

James L. Byrd, Jr.

Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8207 (Togiak Bay to Cape Constantine, Alaska)

TP-01186

Bristol Bay

Negukthlik River

Nunavachak Bay

Rocky Point

Summit Island

Togiak Bay

Ungalikthluk Bay

Ungalikthluk River

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division

Charting and Geodetic Services

REVIEW REPORT SHORELINE

TP-01186

61 - GENERAL STATEMENT

See Summary included with this report.

62 - COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS

A comparison was made with U.S.C. & G.S. Topographic Map T-9237 and T-9242, both 1:20,000 scale, compiled from September 1948 photography.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Hagemeister Island (D-1) Alaska, scale 1:63,360, dated 1952.

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: 16011, 31st edition, dated June 29, 1985, scale 1:1,023,188 and Provisional Chart 16315, 1st edition, dated May 9, 1985, scale 1:100,000.

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

fowell O. Neterer, Jr

Final Reviewer 4 April, 1986

Approved for forwarding

Billy A. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

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 Re-

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vi-
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vi
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Vi-
			Drawing No.
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			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
		· · · · · · · · · · · · · · · · · · ·	Total Day Before Afra Varification Province Inspection Signed Vi
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