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-01191 1
Job No. CM-8207
Map Classification
CLASS III (FINAL).
Type of Survey
SHORELINE
LOCALITY
State
ALASKA
General Locality
TOGIAK BAY TO CAPE CONSTANTINE
Locality
ROUND ISLAND
1983 TO 19
REGISTERED IN ARCHIVES
DATE

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE	TYPE OF SURVEY	SURVEY TP. 01191
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN	M ORIGINAL	_
	LE ORIGINAL	MAP EDITION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	☐ RESURVEY	MAP CLASS III Final
1	REVISED	јов ж <u>ин СМ-8207</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEED	ING MAP EDITION
Coastal Mapping Unit	TYPE OF SURVEY	JOB PH
AMC, Norfolk, VA	O ORIGINAL	MAP CLASS
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:
A. Y. Bryson, CDR	- REVISED	19TO 19
I. INSTRUCTIONS DATED		·
1, office	2.	FIELO
Aerotriangulation August 13, 1985 Office March 18, 1986	Control	March 25, 1983
II. DATUMS		
1. HORIZONTAL: EX 1927 NORTH AMERICAN	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER 2. VERTICAL: MEAN LOWER LOW-WATER	OTHER (Specify)	
MEAN SEA LEVEL	 	
3. MAP PROJECTION	4. (SRID(5)
Transverse Mercator Projection	Alaska	6
5. SCALE 1:20,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS		<u>~~~~~~~</u>
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	L. Harrod	Sept 1985
METHOD: Analytic Landmarks and aids by	1	Sept 1985
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Kynetics 1201 CHECKED BY		Jan 1986 Jan 1986
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	F. Mauldin P. Evans	Feb 1986
COMPILATION CHECKED BY		Feb 1986
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.	
scale: 1:20,000 CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION PLANIMETRY BY	P. Evans	Feb 1986 Mar 1986
CHECKED BY CONTOURS BY	F. Mauldin	Mai 1500
метнор: Smooth draftedснескер ву	N.A.	
SCALE: 1:20,000 HYDRO SUPPORT DATA BY	P. Evans	Feb 1986
CHECKED BY	 	Mar 1986
5. OFFICE INSPECTION PRIOR JOHNSON EXCE Final Review	F. Mauldin	Mar 1986
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW Class III BY	F. Mauldin	Mar 1986
8. FINAL REVIEW Class III BY	L. O. Neterer, Jr.	Mar 1986
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	L. O. Neterer, Jr.	Jnn 1986
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	P. Demprey	5007, 1986
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	TKAVALORKI IT	- Sin 1988

NOAA FORM 76-36A SUPERSEDES FORM C& G\$ 181 SERIES

* U.S. G.P.O. 1972-769382/582 REG.#6

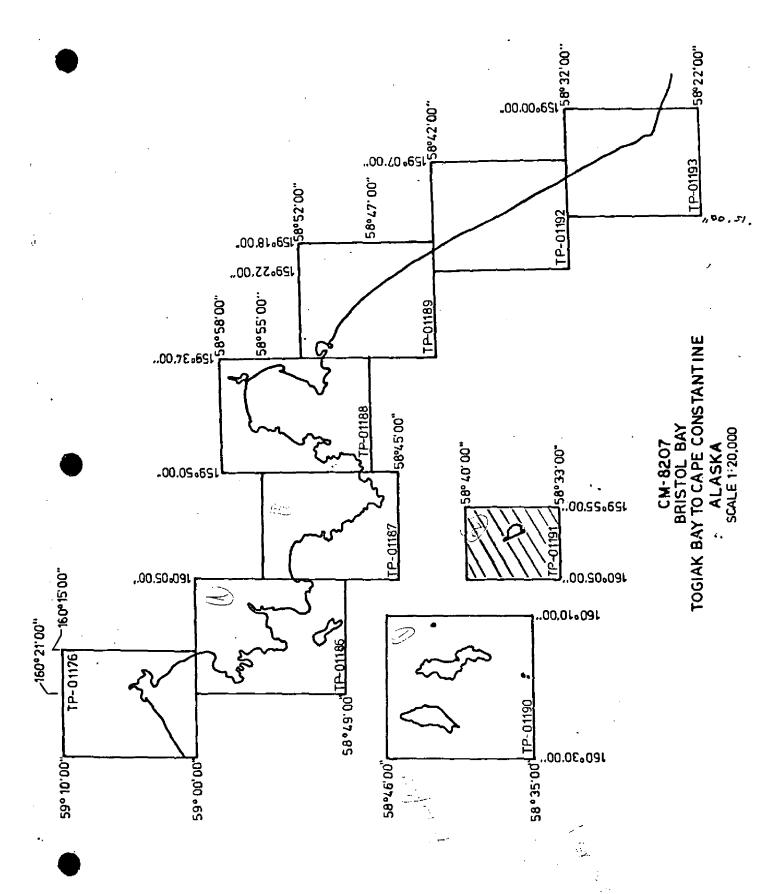
(3-72)		TP-01191 History of Field		NIC AND ATMOSPHERI	ENT OF COMMERC C ADMINISTRATIO AL OCEAN SURVE
」。 「	RRYMAN O		D EDIT OPERATION	- 	
		OPERATION	 	NAME	DATE
1. CHIEF OF FIE	I O PARTY			<u> </u>	
			R. Melby	<u> </u>	July 1983
2. HORIZONTAL	CONTROL	RECOVERED BY ESTABLISHED BY	R. Melby N.A.		<u>July 1983</u>
		PRE-MARKED OR IDENTIFIED BY	R. Melby		July 1983
		RECOVERED BY	N.A.		
3. VERTICAL CO	NTROL	ESTABLISHED BY	N.A.	·	
<u> </u>		PRE-MARKED OR IDENTIFIED BY	N.A.		
		RECOVERED (Triangulation Stations) BY	N.A.		
4. LANDMARKS A		LOCATED (Field Methods) BY	N.A.		
AIDS TO NAVI	GATION	IDENTIFIED BY	N.A.		
		TYPE OF INVESTIGATION			
5. GEOGRAPHIC INVESTIGATION		COMPLETE			}
111 40 110 110		SPECIFIC NAMES ONLY			
		NO INVESTIGATION			
6. PHOTO INSPE		CLARIFICATION OF DETAILS BY	N.A.		<u> </u>
7. BOUNDARIES		SURVEYED OR IDENTIFIED BY	IN.A		<u> </u>
1. HORIZONTAL		DENTIFIED	2. VERTICAL COI	NTROL IDENTIFIED	
	remarki		None		
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	ROUND,	1948 AZ MK 1983 (Sub pt.)			
		•			
3. PHOTO NUMBE	RS (Clarific	cation of details)			
None					
4. LANDMARKS A	ND AIDS TO	NAVIGATION IDENTIFIED			
None					
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	E MAIS AI	io realis			
None 8. OTHER FIELD	RECORDS (Sketch books, etc. DO NOT list data submit	ted to the Geodesy D	ivision)	
2 NOAA I	Forms 76	5-53 CSI Cards			
IOAA FORM 76-360				☆ U.S. GPO: 197	7-765-092/1105 Region

(3-72)			ייייי מוח				NAL OCEAN SURV
		COM	TP-01191 PILATION S	DURCES			
1. COMPILATION PH	OTOGRAPHY						
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REFERENCE STA			(I) INFRAF	PANCHROMATIC INFRARED		150°W	DAYLIGI
NUMBER AND		DATE	TIME	SCALE		STAGE	OF TIDE
33 B(C) 5467-!		8-24-83	12:20	11:30,000	N.A	•	
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	applicable				_		
							
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above listed methods. 3. SOURCE OF MEAN There w	HIGH Water Of the Market of th	er Line was of idging/compiler of the compiler	OW-WATER LINE Vater line Only those survey OY USED SU	compiled or	for photogra	mmetric surv	rument

U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72)TP-01191 RECORD OF SURVEY USE I. MANUSCRIPT COPIES DATE MANUSCRIPT FORWARDED COMPILATION STAGES MARINE CHARTS HYDRO SUPPORT DATA COMPILED DATE REMARKS Compilation Complete March 1986 Class III Manuscript None None July 17, 1986 July 17,1986 Final Reviewed March 1986 Final Class III Map II. LANDMARKS AND AIDS TO NAVIGATION None 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER DATE NUMBER REMARKS NUMBER ASSIGNED FORWARDED None 2. TREPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: III. FEDERAL RECORDS CENTER DATA 1. 图本BRIDGING PHOTOGRAPHS: 区域 DUPLICATE BRIDGING REPORT: _ 文文 COMPUTER READOUTS.

2. XXco	NTROL STATION IDENTIFICA	TION CARDS; TORM NO	76'-4()***** SXXXSUBMITTED BY FIELD PARTIES.
	URCE DATA (except for Geograp COUNT FOR EXCEPTIONS:	~	IN SECTION II, NOAA FORM 76-36C.
4. 🛄 DA	TA TO FEDERAL RECORDS C	ENTER. DATE FORWARDED:	
IV. SURVEY	EDITIONS (This section shall b	e completed each time a new ma	p edition is registered)
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND	TP(2)	PH ·	REVISED RESURVEY
P.D (D.)	DATE OF PHOTOGRAPHY	DATE OF FIELD EDLT	MADCLASS

SECOND			_ CANCALD CONTRACT
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
1	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
THIRD	TP	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
			□II. □III. □IV. □V. □FINAL
	SURVEY NUMBER	JOS NUMBER	TYPE OF SURVEY
FOURTH	TP(4)	PH	AEVISED RESÚRVÉY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
	<u> </u>		□II. □III. □IV. □V. □FINAL



SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

TP-01191

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 1:30,000 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 March 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-01191

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

FROM:

N/MOP222 - Robert B Melhul

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.



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:

Don O. Norma

Don O. Norman

Chief, Aerotriangulation Section

Togiak Bay to Cape Constantine, Alaska CM-8207

Fit to Control - X and Y in Feet

Point No.	<u>x</u>	<u>Y</u>
(872100) (876100) (880100) (885101) (889100)	-1.5 3.1 6 -2.5 1.5	8 .3 2.4 -3.5 1.6
(872100) (054101) (055100) (057100)	.1 4 .3 0	1 .8 8 .1
(082100) (085101) (088100) (090100) (057100)	.4 3 -1.2 4 .4	1.3 -1.3 4.1 -1.0
(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
	(872100) (876100) (880100) (885101) (889100) (872100) (054101) (055100) (057100) (085101) (088100) (090100) (097100) (809801) (809802) (809803) (810801) (810802) (810803) (811801) (811802)	(872100) -1.5 (876100) 3.1 (880100) 6 (885101) -2.5 (889100) 1.5 (872100) .1 (054101) 4 (055100) .3 (057100) 0 (082100) -4 (085101) 3 (08100) -1.2 (090100) 4 (057100) -4 (809801) -6.2 (809802) -1.0 (809803) 1.1 (810801) 3.4 (810802) 3.7 (810803) 6.5 (811801) -2.6 (811802) -4.7

St	ri	n 1	51	1-6
JU	, ,	μ,	"	-0

▲ 3. Owens 1948 Tie from Strip 50-4 A Tie from Strip 50-4 A " " " " " " " " " " " " " " " " " "	(088100) (813801) (813802) (813803) (814801) (814802) (815801) (815802) (815803) (816801) (816802) (816803) (090100) (817801) (817802) (817803)	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			
▲ 15. Crooked 1948 AZ MK ▲ 14. Crooked 1948 ▲ 13. High 1948	(104100) (105100) (107100)	-4.2 6.1 -1.9	4 4.3 -3.9
<u>Strip 50-9</u>			
A14. Crooked 1948 ATie from Strip 50-7 A	(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 3
<u>Strip 30-11</u>			
▲ 16. Round 1948 AZ MK Sub Pt. ▲ 17. Round 1948 Sub Pt.	(468101) (469101)	.0 .0	0 .0

▲ Stations held in the Strip Adjustments

Togiac Bay to Cape Constantine, Alaska

CM-8207

September 1985

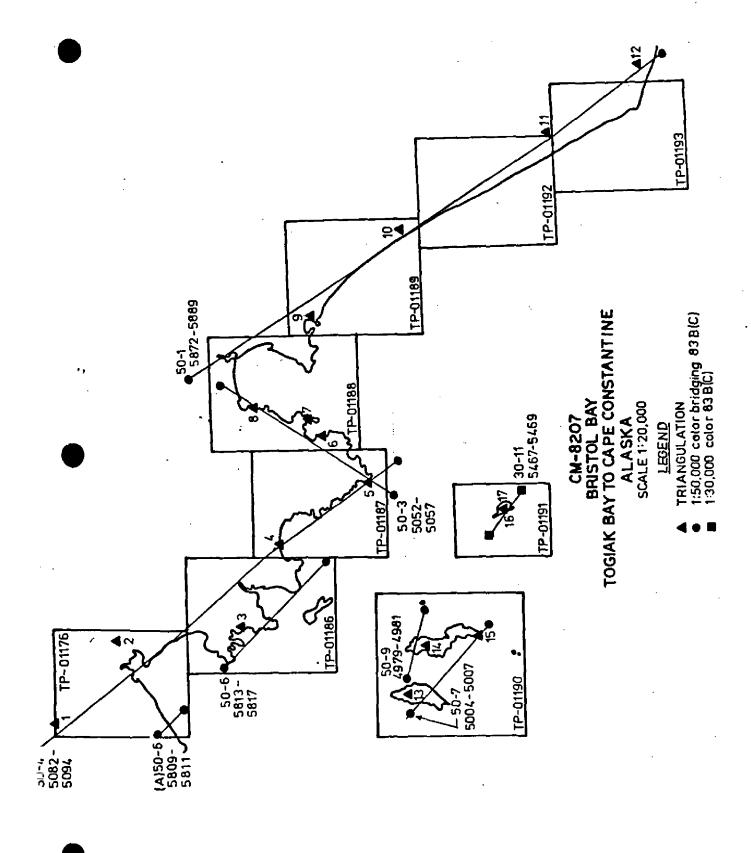
Ratio values for 1:50,000 scale color bridging photographs.

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				l	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
		DESCRIPTIVE	E REPORT CONTROL RECORD		
MAP NO.	JOB NG.		GEODETIC DATUM	ORIGINATING ACTIVITY COASTAL	Iry Coastal Mapping
TP-01191	CM-8207		N.A. 1927	Unit, AMC, Nor	
	SOURCE OF		COORDINATES IN FEET		l
CANANA CA	information (Index)	POINT	SIAIS SONE 6	A LONGITUDE	
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	GP MOSMOD DD		±χ.	φ 58 36 31.356	
ROUND 1948, AZ MK, 1983	1983	468100	y=	λ 159 58 52.683	
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COMPUTED BY		DATE	COMPUTATION CHECKED BY		DATE
LISTED BY P. L. EVANS, UY.		DATE 2/6/86	LISTING CHECKED BY F. Mauldin	n u	DATE 3/4/86
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY		DATE

COMPILATION REPORT TP-01191

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 1:30,000 scale bridging/compilation photographs. All photographs used to compile this map are listed in NOAA form 76-36B. The photography was adequate. 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. The only exception was the northwest end of the shoal extending from Round Island. This was done graphically using detail as control. There was no stereo coverage for the end of the shoal available.

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.

40 - HORIZONTAL AND VERTICAL ACCURACY

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangle: Hagemeister Island (C-1), Alaska; dated 1952; scale 1:63,360.

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

P. L. Evans, Jr. Cartographic Technician 18 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-01191

Bristol Bay

Round Island

Walrus Islands

Approved:

Charles E. Harrington

Chief Geographer

Nautical Charting Division Charting and Geodetic Services

REVIEW REPORT SHORELINE

TP-01191

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-9253, 1:20,000 scale, compiled from 1946 and 1948 photography.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. Quadrangle: Hagemeister Island (C-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

Lowell O. Neterer, Jr

Final Reviewer

March 28, 1986

Approved for forwarding

Billy H. Barnes

Chief, Photogrammetric Section, AMC

Approved

Chief, Photogrammetric Section,

Rockville

Chief, Photogrammetry Branch,

Rockville

HAUTICAL 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 ch. 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 :

CHART	DATE	CARTOGRAPHER	REMARKS
	Ī .		Full Part Before After Verification Review Inspection Signed \
			Drawing No.
	<u> </u> 	- 	Full Part Before After Verification Review Inspection Signed V
			Drawing No.
	<u>} </u>		Full Part Before After Verification Review Inspection Signed V
			Drawing No.
		 	Full Part Before After Verification Review Inspection Signed V
			Drawing No.
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