

01185

01185

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.	
<i>Map No.</i> TP-01185	<i>Edition No.</i> 1
<i>Job No.</i> CM-8206	
<i>Map Classification</i> CLASS III (FINAL)	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> ALASKA	
<i>General Locality</i> CAPE NEWENHAM TO TOGIAK BAY	
<i>Locality</i> ASIGYUKPAK SPIT	
<div style="border: 1px solid black; padding: 5px; display: inline-block;">19 85 TO 19</div>	
REGISTERED IN ARCHIVES	
DATE	

1. COMPILATION PHOTOGRAPHY

CAMERA(S) (focal length = 152.74 mm) Wild R.C. 10(B)	TYPES OF PHOTOGRAPHY LEGEND (C) COLOR (P) PANCHROMATIC (I) INFRARED	TIME REFERENCE ZONE Alaska MERIDIAN 135°W
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES * <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
85B(C) 5167-5170	Jul. 10, 1985	15:35	1:50,000	1.1 ft. above MLLW Mean Tide Range=7.6 ft.

REMARKS *The stage of tide at the time of photography was based on predicted tide data, using reference station Nushagak Bay and subordinate station Black Rock (Walrus Island).

2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the above listed compilation/bridging color photographs using stereo instrument methods.

3. SOURCE OF MEAN LOW-WATER LINE OR MEAN LOWER LOW-WATER LINE:

There was no mean lower low water line compiled on this map.

4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
TP-01179	TP-00899	No Survey	TP-01184

REMARKS

TP-01185

HISTORY OF FIELD OPERATIONS

I. FIELD INSPECTION OPERATION Premarking FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	R. Melby	Jun 1985
2. HORIZONTAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	M. McEwen	Jun 1985
	N.A.	
	M. McEwen	Jun 1985
3. VERTICAL CONTROL RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A.	
	N.A.	
	N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	N.A.	
	N.A.	
	N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION		
6. PHOTO INSPECTION CLARIFICATION OF DETAILS BY	N.A.	
7. BOUNDARIES AND LIMITS SURVEYED OR IDENTIFIED BY	N.A.	

II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED		2. VERTICAL CONTROL IDENTIFIED	
Premarked		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
85B(C)5169	FIFTEEN, 1948 (paneled direct)		

3. PHOTO NUMBERS (Clarification of details)
None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED
None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: REPORT NONE

6. BOUNDARY AND LIMITS: REPORT NONE

7. SUPPLEMENTAL MAPS AND PLANS
None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)
1 - Form 76-53 CSI Card

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	Oct. 1986	Class III Manuscript	None	None
Final Reviewed	Oct. 1986	Final Class III	12-12-86	12-12-86

II. LANDMARKS AND AIDS TO NAVIGATION None

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

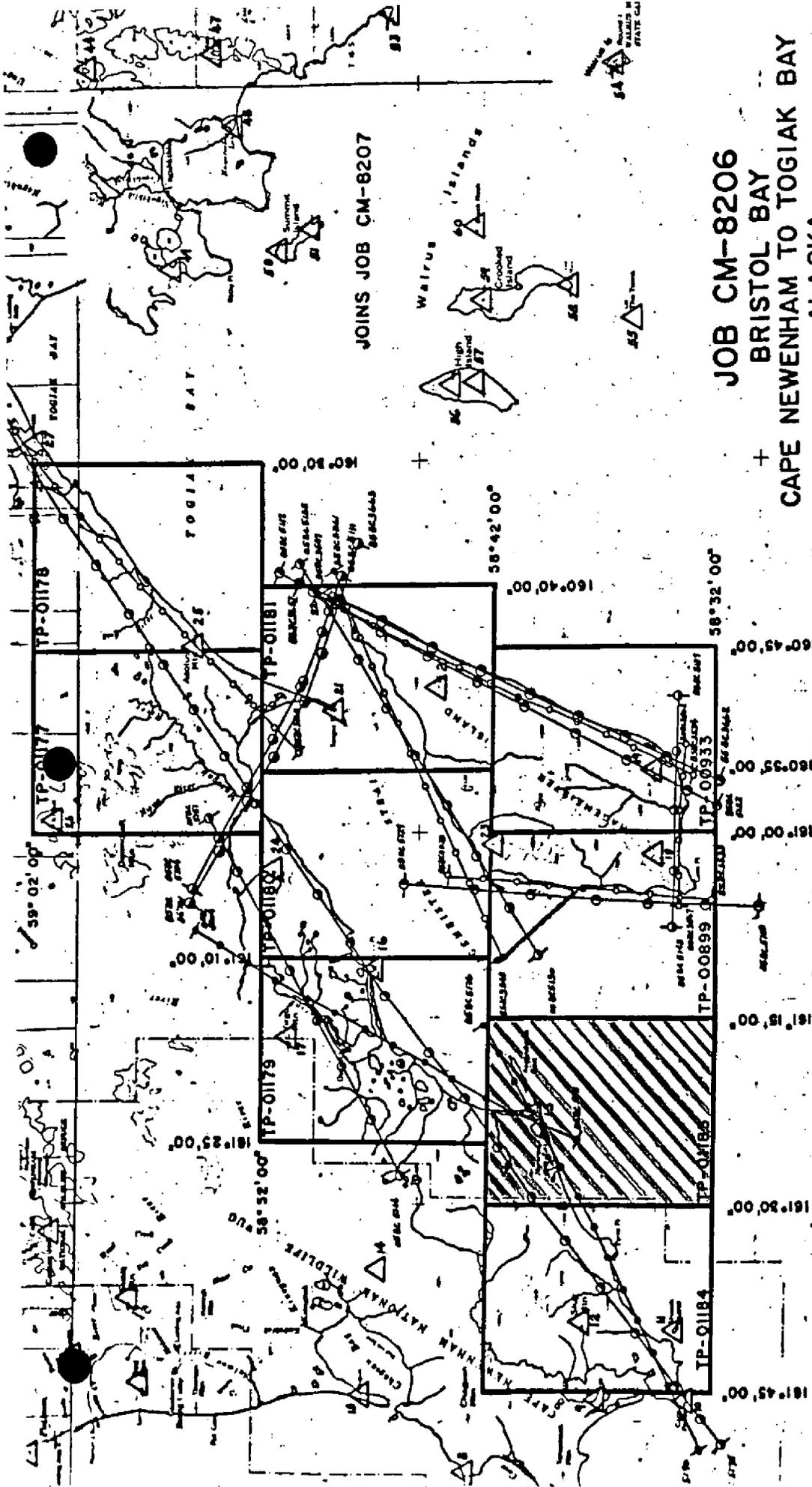
2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: None
3. REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

III. FEDERAL RECORDS CENTER DATA

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.
2. CONTROL STATION IDENTIFICATION CARDS; FORM NOS. ⁷⁶⁻⁴⁰ ~~262~~ SUBMITTED BY FIELD PARTIES.
3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:
4. DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

IV. SURVEY EDITIONS (This section shall be completed each time a new map edition is registered)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL



JOINS JOB CM-8207

JOB CM-8206
BRISTOL BAY
CAPE NEWENHAM TO TOGIAK BAY
ALASKA
SHORELINE MAPPING
SCALE = 1:20,000

LEGEND:

- 1:50,000 Color (Bridging)
- 1:50,000 Black & White (Infrared)
- 1:30,000 Color

PHOTO COVERAGE

SCALE



SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01185

This 1:20,000 scale shoreline map is one of nine maps in project CM-8206, Cape Newenham to Togiak Bay, Alaska latitude $59^{\circ}02'00''$, longitude $160^{\circ}30'00''$ southwest to latitude $58^{\circ}32'00''$, longitude $162^{\circ}15'00''$, including Hagmeister Island.

Photographic coverage was provided in July 1985 with color film using the Wild RC-10 "B" camera at 1:50,000 scale.

Field work prior to compilation accomplished in June and August 1985, consisted of premarking stations and photoidentifying one control station to satisfy aerotriangulation requirements.

Analytic aerotriangulation was adequately performed at the Washington Science Center in March 1986. The manuscripts were ruled at the Atlantic Marine Center from the data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1:50,000 scale color photography in October 1986.

Final Review was performed at the Atlantic Marine Center in October 1986. A chart Maintenance Print and Hydro Print were prepared and forwarded to the Marine Charts Branch and the Hydrographic Branch. This map is to be registered as a Final Class III 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 Service
 Pacific Marine Center
 1801 Fairview Avenue East
 Seattle, Washington 98102-3767

October 7, 1985

N/MOP21/DWY

TO: N/CG23 - Ronald K. Brewer

FROM: N/MOP22 - David W. Yeager

David W. Yeager

SUBJECT: Field Operations Report, Job CM-8206, Bristol Bay, Togiak Bay to Cape Newenham, Alaska, Shoreline Mapping

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

Field work was accomplished during the first two weeks in June and the last week of August, 1985, under Project Instructions for Job CM-8206 dated April 26, 1985.

Photo panels were placed in each office-selected area except for site numbers 1 and 15 (as shown on the attached sketch). Site number 1 was at Cape Newenham where access was precluded during both field periods due to extreme weather conditions. Site number 15 was not paneled for the same reason. However, two photo identifiable points were positioned on returning to area 15 after the photography was completed. All stations were paneled direct except for site number 12 where a substitute station was paneled.

No photo hydro panels were set due to time constraints imposed by helicopter availability.

Each photo panel has been entered on NOAA form 76-53, Control Station Identification Card, with other pertinent information.

Seven additional horizontal control stations were established by Third Order-Class I methods at panel sites that did not have an existing horizontal control station. These positions were determined with a Magnavox MX-1502 Geociever using the translocation solution and represent unadjusted field positions. Positioning data, recovery notes, etc. will be entered into the NGS data base via terminal entry procedures (MTEN) during November 1985.

The following data from Job CM-8206 is attached and forwarded for your use:

1. Control Station Identification Cards (CSI, NOAA Forms 76-53) for each paneled station.
2. Map of the area covered by Job CM-8206 indicating locations of each paneled station.



LIST OF GEOGRAPHIC POSITIONS

CM-8206

HORIZONTAL CONTROL TARGETS

	POSITION	STATION NAME
PANEL #1	UNAVAILABLE	NOT paneled
	58°-40'-31.22747"	
PANEL #2	161°-56'-17.14127"	CASTLE ROCK
	58°-36'-47.42199"	
PANEL #3	161°-45'-29.45564"	NANVAK
	58°-33'-08.10089"	
PANEL #4	161°-45'-36.58559"	PIERCE
	58°-39'-16.41706"	
PANEL #5	{ 161°-24'-49.45443"	FIFTEEN
	58°-46'-54.87174"	
PANEL #6	161°-10'-50.61927"	ESTUS
	58°-52'-29.373"	
PANEL #7	160°-55'-57.808"	MATOGAK
	58°-48'-45.571"	
PANEL #8	160°-50'-09.208"	TONGUE POINT 2
	58°-54'-58.73179"	
PANEL #9	160°-44'-45.82133"	AEOLUS
	59°-01'-57.36568"	
PANEL #10	160°-28'-15.46802"	NEMESIS
	58°-49'-04.24167"	
PANEL #11	160°-40'-55.84692"	STRAIT
	58°-44'-13.06020"	
PANEL #12	160°-48'-16.54081"	ISLAND
	58°-39'-36.483"	
PANEL #13	160°-49'-29.186"	GEM
	58°-34'-44.057"	
PANEL #14	160°-55'-01.729"	CALM POINT
	58°-33'-12.266"	
PANEL #15	161°-02'-55.477"	PHOTO I.D. #1
	58°-33'-26.345"	
PANEL #15 ALTERNATE	161°-02'-52.740"	PHOTO I.D. #2
	58°-36'-52.109"	
PANEL #16	161°-04'-16.765"	STER
	58°-41'-43.229"	
PANEL #17	161°-10'-15.915"	TAT
	58°-42'-02.792"	
PANEL #18	161°-03'-33.322"	MOLY
	58°-44'-41.531"	
PANEL #19	160°-54'-59.618"	VELO

All Latitudes North
 All Longitude West

AEROTRIANGULATION REPORT
CM-8206
CAPE NEWENHAM TO TOGIAC BAY
MARCH 19, 1986

21. AREA COVERED

The area covered by this report is in Bristol Bay from Cape Newenham to Togiak Bay. This area is covered by nine 1:20,000 scale manuscripts, TP-01177 thru TP-01181, TP-01184, TP-01185, TP-00899, TP-00933.

22. METHOD

Three strips of 1:50,000 - and two strips of 1:30,000-scale color photographs were bridged by analytic aerotriangulation method and adjusted to ground using the Alaska State Plane Coordinate System Zone 7.

No fixed aids to navigation or landmarks were located for this project.

No manuscripts were plotted for compilation but a magnetic tape was created of the output of the bridge points for compilation for plotting at the Atlantic Marine Center.

Ratio values were determined for the bridging photographs. No black-and-white infrared photographs were secured for this job.

23. ADEQUACY OF CONTROL

The horizontal control provided was adequate for the job. Fifteen premarked stations and two field identified photo control points were used in the adjustment of the strips. Ties were made between the overlapping strips and used for control in some of the strips. The aerotriangulation of this project will meet The National Ocean Service requirements for map manuscripts.

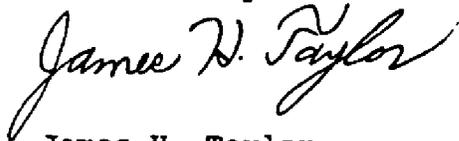
24. SUPPLEMENTAL DATA

Vertical control was taken from USGS quadrangles.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved adequate for the job with the exception of a small area on the west side of TP-01184. The coverage of the northern part of Nanvak Bay will be inadequate. The optical flat of the camera had an icing condition which made the selection of passpoints difficult. The "Z" camera was mounted in the plane backwards and the photos had to be renumbered to reverse the direction of the flight.

Submitted By



James H. Taylor

Approved & Forwarded



Don. O. Norman
Chief, Aerotriangulation Unit

CM-8206
FIT TO CONTROL
▲ = CONTROL HELD

STRIP 50-3
85-BC-5153 thru 5174

PT. NO.	XFT.	YFT.
▲153100	-0.5	-0.2
▲158100	2.1	0.7
▲161100	-0.6	-1.0
▲165100	-2.7	0.5
▲168100	2.3	-0.1
▲174100	-0.6	0.1

STRIP 50-7
85-BC-5140 thru 5143

PT. NO.	XFT.	YFT.
▲661100	0.0	-0.1
▲143101	1.8	-0.9
▲143102	-1.8	1.0

STRIP 50-6
85-ZC-3654 thru 3661 ORIGINAL NUMBERS
3661 thru 3668 NEW NUMBERS

PT. NO.	XFT.	YFT.
▲140801	-0.2	1.6
▲140802	-2.0	1.4
▲140803	-1.0	4.1
▲661100	-0.4	0.3
▲658100	1.7	-0.8
▲656101	-1.6	0.8
▲654100	0.3	-0.4

STRIP 30-11
85-ZC-3526 thru 3532 ORIGINAL NUMBERS
3532 thru 3538 NEW NUMBERS

PT. NO.	XFT.	YFT.
▲143101	6.2	-3.9
▲143102	-12.7	-0.6
▲532801	1.8	0.8
▲532802	-1.8	0.9
▲530100	0.0	0.0
▲526100	0.0	0.0

STRIP 30-8
85-ZC-3549 thru 3560 ORIGINAL NUMBERS
3560 thru 3570 NEW NUMBERS

PT. NO.	XFT.	YFT.
▲ 560801	-0.2	-0.5
▲ 560802	0.0	-0.6
▲ 560803	0.2	1.2
▲ 555100	0.0	0.0
▲ 526100	0.0	0.0
▲ 538802	-1.4	-1.2

5

RATIO VALUES
CM-8206

RATIO 2.490
85-BC-5130-5131
5140-5143

RATIO 2.494
85-BC-5153-5174

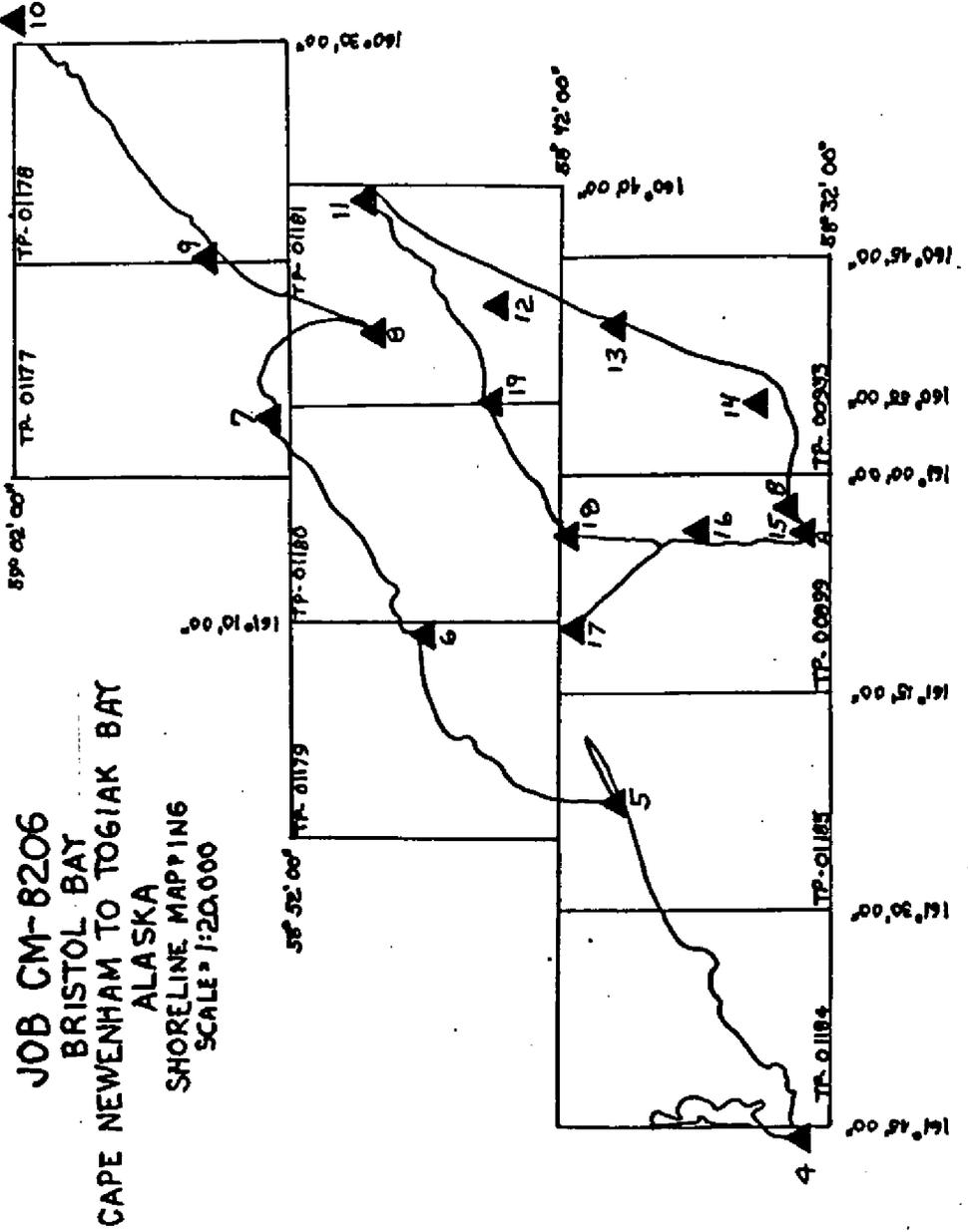
RATIO 1.463
85-ZC-3526-3532

RATIO 1.459
85-ZC-3549-3560

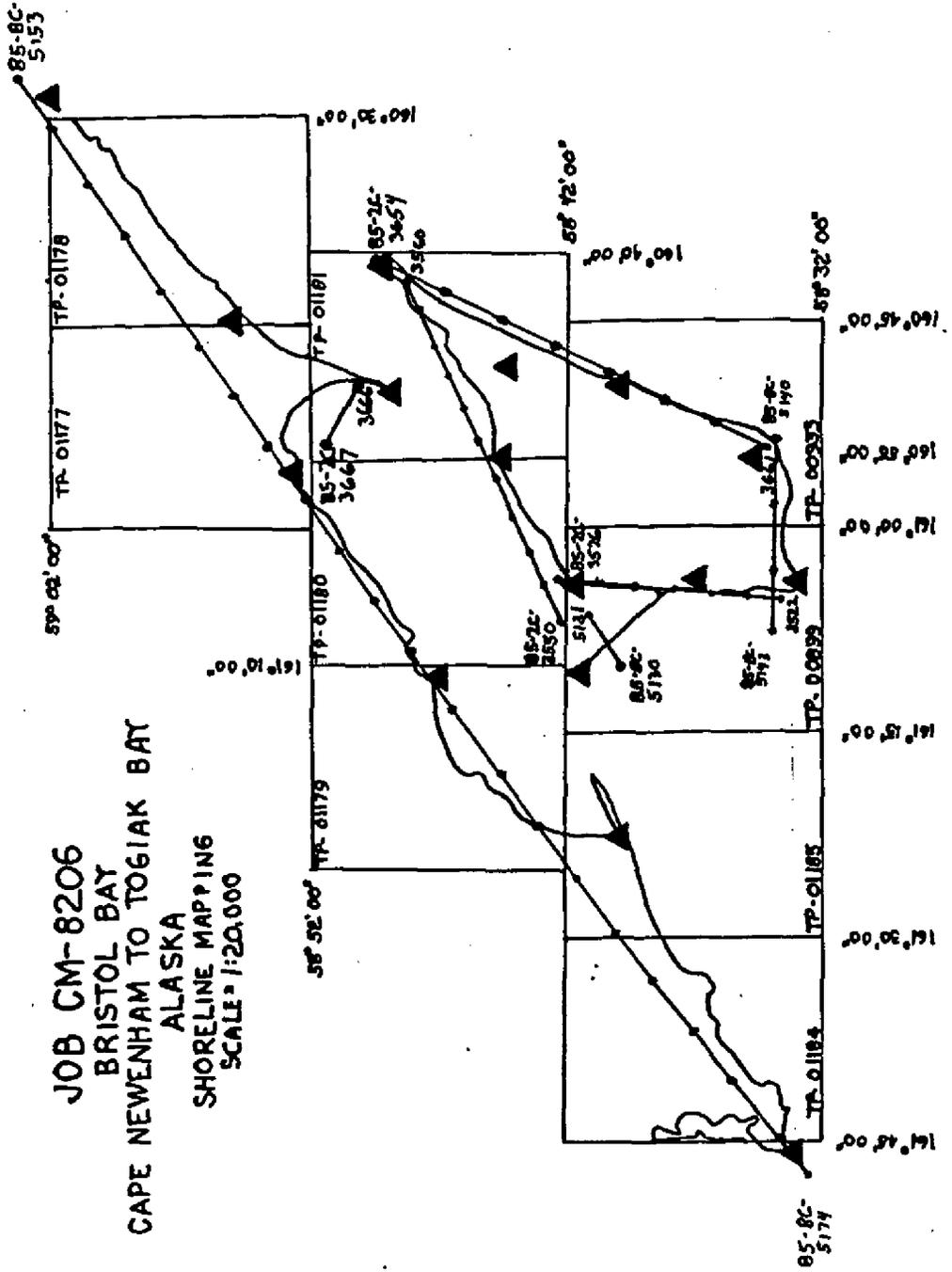
RATIO 2.452
85-ZC-3654-3661
3665-3667

KEY TO NUMBERED TRIANGULATION STATION

4 - Pierce, 1948	174100
5 - Fifteen, 1948	168100
6 - Estus, 1948	165100
7 - Matogak, 1985	161100
8 - Tongue Point 2, 1985	666100
9 - Aeolus, 1948	158100
10 - Nemesis, 1948	153100
11 - Strait, 1948	654100
12 - Island, 1948	656101
13 - Gem, 1985	658100
14 - Calm Point, 1948	661100
15A - Photo ID #1	143101
15B - Photo ID #2	143102
16 - Ster, 1985	530100
17 - Tat, 1985	549100
18 - Moly, 1985	526100
19 - Velo, 1985	555100



JOB CM-8206
BRISTOL BAY
CAPE NEWENHAM TO TOGIAK BAY
ALASKA
SHORELINE MAPPING
SCALE = 1:20,000



DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. TP-01185	JOB NO. CM-8206	GEODETIC DATUM N.A. 1927	ORIGINATING ACTIVITY Coastal Mapping Unit, AMC, Norfolk, VA																																																																								
STATION NAME FIFTEEN, 1948	SOURCE OF INFORMATION (Index) Quad. 581611 STA 1002	AEROTRI- ANGULATION POINT NUMBER 168100	COORDINATES IN FEET STATE Alaska ZONE 7																																																																								
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COMPILATION REPORT
TP-01185

31 - DELINEATION

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

32 - CONTROL

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated March 19, 1986.

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 DETAILS

The mean high water line was compiled from office interpretation of the compilation/bridging photographs as described in item #31.

There was no mean lower low water line compiled on this manuscript.

36 - OFFSHORE DETAILS

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

37 - LANDMARKS AND AIDS

There were 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-01185

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 (C-4), Alaska; dated 1948, revised 1973; scale 1:63,360 (U.S.G.S.)
 Hagemeister Island (C-5), Alaska; dated 1952; scale 1:63,360 (U.S.G.S.)
 T-9245; scale 1:20,000; compiled 1950 (U.S.C.&G.S.)
 T-9246; scale 1:20,000; compiled 1949 (U.S.C.&G.S.).

47 - COMPARISON WITH NAUTICAL CHARTS

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

530; 22nd edition; dated August 18, 1984; scale 1:4,860,700
 16006; 28th edition; dated March 31, 1984; scale 1:1,534,076
 16011; 31st edition; dated June 29, 1985; scale 1:1,023,188
 16305; 2nd edition; dated January 4, 1986; scale 1:100,000 (Prov)
 16300; 7th edition; dated September 18, 1986; scale 1:100,000.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by

J. Byrd Jr.
 Michael T. Burns
 Cartographic Aid
 1 October 1986

Approved

J. Byrd Jr.
 James L. Byrd, Jr.
 Chief, Coastal Mapping Unit

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8206 (Cape Newenham to Togiak Bay, Alaska)

TP-01185

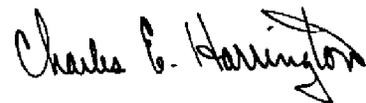
Asigyukpak Spit

Bristol Bay

Hagemeister Strait

Norseman Lake

Approved:



Charles E. Harrington
Chief Geographer
Nautical Charting Division
Charting and Geodetic Services

REVIEW REPORT
SHORELINE

TP-01185

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 maps: T-9245, compiled in 1950 from photographs taken in 1948 and T-9246, compiled in 1949 from photographs taken in 1948. Both maps are 1:20,000 scale.

63 - COMPARISON WITH MAPS OF OTHER AGENCIES

A comparison was made with U.S.G.S. quadrangles: Hagemeister Island (C-4), Alaska, dated 1948, minor revision 1973 and Hagemeister Island (C-5), Alaska, dated 1952. Both maps are 1:63,360 scale.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

There is no contemporary hydrographic survey within the limits of this map.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following N.O.S. Charts: 16305, 2nd edition, January 4, 1986, scale 1:100,000.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by

Lowell O. Neterer, Jr.

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