

TP-01313

TP-01313

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-01313	<i>Edition No.</i> 1
<i>Job No.</i> CM-8405	
<i>Map Classification</i> CLASS III (FINAL)	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> ALASKA	
<i>General Locality</i> POINT AUGUSTA TO CRIST POINT	
<i>Locality</i> CRIST POINT	
1985 TO 19	
REGISTERED IN ARCHIVES	
<i>DATE</i>	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.									
DESCRIPTIVE REPORT - DATA RECORD		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td>☒ ORIGINAL</td> <td rowspan="3" style="vertical-align: top;"> SURVEY TP. <u>01313</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III (Final)</u> JOB <u>RH. CM-8405</u> </td> </tr> <tr> <td>☐ RESURVEY</td> </tr> <tr> <td>☐ REVISED</td> </tr> </table>		TYPE OF SURVEY		☒ ORIGINAL	SURVEY TP. <u>01313</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III (Final)</u> JOB <u>RH. CM-8405</u>	☐ RESURVEY	☐ REVISED		
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☐ REVISED											
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, Atlantic Marine Center Norfolk, VA OFFICER-IN-CHARGE C. Dale North, Jr., CDR		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LAST PRECEEDING MAP EDITION</td> </tr> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td>☐ ORIGINAL</td> <td rowspan="3" style="vertical-align: top;"> JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u> </td> </tr> <tr> <td>☐ RESURVEY</td> </tr> <tr> <td>☐ REVISED</td> </tr> </table>		LAST PRECEEDING MAP EDITION		TYPE OF SURVEY		☐ ORIGINAL	JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>	☐ RESURVEY	☐ REVISED
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☐ ORIGINAL	JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>										
☐ RESURVEY											
☐ REVISED											
I. INSTRUCTIONS DATED											
1. OFFICE		2. FIELD									
Aerotriangulation November 3, 1986 Compilation February 19, 1987		Control March 1, 1985 Change No. 1 March 25, 1985									
II. DATUMS											
1. HORIZONTAL: ☒ 1927 NORTH AMERICAN		OTHER (Specify) _____									
2. VERTICAL: ☒ MEAN HIGH-WATER ☐ MEAN LOW-WATER ☒ MEAN LOWER LOW-WATER ☐ MEAN SEA LEVEL		OTHER (Specify) _____									
3. MAP PROJECTION Oblique Mercator Projection		4. GRID(S) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE</td> <td style="width:50%;">ZONE</td> </tr> <tr> <td style="text-align: center;">Alaska</td> <td style="text-align: center;">1</td> </tr> </table>		STATE	ZONE	Alaska	1				
STATE	ZONE										
Alaska	1										
5. SCALE 1:20,000		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%;">STATE</td> <td style="width:50%;">ZONE</td> </tr> <tr> <td> </td> <td> </td> </tr> </table>		STATE	ZONE						
STATE	ZONE										
III. HISTORY OF OFFICE OPERATIONS											
OPERATIONS		NAME	DATE								
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY		J. Taylor	Jan. 1987								
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Xynetics 1201 CHECKED BY		F. Mauldin	Jan. 1987								
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY		R. Kravitz	Mar. 1987								
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: Smooth Drafted CONTOURS BY CHECKED BY SCALE: 1:20,000 HYDRO SUPPORT DATA BY CHECKED BY		R. Kravitz	Mar. 1987								
5. OFFICE INSPECTION PRIOR TO Final Review BY		F. Mauldin	Mar. 1987								
6. APPLICATION OF FIELD EDIT DATA BY		N.A.									
7. COMPILATION SECTION REVIEW Class III BY		F. Mauldin	Mar. 1987								
8. FINAL REVIEW Class III BY		L. O. Neterer, Jr.	Mar. 1987								
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		L. O. Neterer, Jr.	May 1987								
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		P. Dempsey	June 1987								
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		E. L. DAUGHERTY	JUN 87								

TP-01313

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) R.C. 10 "B" (152.74mm) R.C. 10 "Z" (153.15mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE	☒ STANDARD ☐ DAYLIGHT
☒ PREDICTED TIDES ☐ REFERENCE STATION RECORDS ☐ TIDE CONTROLLED PHOTOGRAPHY				Alaska	
				MERIDIAN	
				135°	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
85 Z(C) 2941-2945	06-10-85	08:53	1:50,000	8.1 feet above MLLW	
85 Z(C) 3226-3228	06-28-85	13:40	1:50,000	4.6 feet above MLLW	
85 B(I) 5051-5055	05-22-85	09:22	1:50,000	1.2 feet below MLLW	
85 B(I) 5070-5072	05-22-85	09:56	1:50,000	0.1 feet above MLLW	
85 B(I) 5062-5063	05-22-85	09:36	1:50,000	0.9 feet below MLLW	
				Mean Tide Range=12.4.ft.	

REMARKS

Stage of tide was based on predicted tide data, using Hoonah gage.

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 OR MEAN LOWER LOW-WATER LINE:

The Mean Lower Low Water Line was compiled graphically from the above listed tide coordinated infrared photographs.

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 TP-01310	EAST TP-01311, TP-01314
SOUTH No Survey	WEST CM-8502; TP-01362 CM-8404; TP-01321

REMARKS

TP-01313

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION - Premarking ☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. Vandermeulen	May 1985
2. HORIZONTAL CONTROL	RECOVERED BY M. McEwen ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY M. McEwen.	May 1985 May 1985
3. VERTICAL CONTROL	RECOVERED BY N.A. ESTABLISHED BY N.A. PRE-MARKED OR IDENTIFIED BY N.A.	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N.A. LOCATED (Field Methods) BY N.A. IDENTIFIED BY N.A.	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION ☐ COMPLETE ☐ SPECIFIC NAMES ONLY ☒ 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	
Paneled		None	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
85Z(C)2943 85Z(C)2950	SCRAGGY, 1901 (direct) INNER 2, 1981 (sub point)		

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 ☒ NONE6. 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)

2 forms 76-53 (CSI Cards)
1 form 76-109 Observations of Horizontal Direction for Project.

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	March 1987	Class III Manuscript		
Final Review	March 1987	Final Class III Map	5/20/87	5/20/87

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		5/20/87	Charted landmarks and aids form

2. ☐ REPORT 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. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 76-40 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 ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY ☐ REVISED ☐ RESURVEY MAP CLASS ☐ II. ☐ III. ☐ IV. ☐ V. ☐ FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB CM-8405

ICY STRAIT

PT. AUGUSTA TO CRIST PT.

ALASKA

SHORELINE MAPPING

SCALE 1"=10,000 & 1"=20,000

TP-01309

2

58°32'00"

58°22'00"

TP-01311

58°20'00"

58°15'00"

58°12'00"

TP-01312

TP-01310

3

4

TP-01314

TP-01315

6

5

TP-01313

58°10'00"

58°02'00"

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

135°01'00"

134°51'00"

G O F

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01313

This 1:20,000 scale map is one of seven maps, six are 1:20,000 scale and one is 1:10,000 scale, in project CM-8405, Icy Strait, Point Augusta to Crist Point, Alaska. The project extends from latitude $58^{\circ} 00' 00''$ north to latitude $58^{\circ} 32' 00''$, longitude $134^{\circ} 51' 00''$ west to longitude $135^{\circ} 32' 00''$.

Field work prior to compilation was accomplished during May 1985. This consisted of premarking triangulation stations to satisfy aerotriangulation requirements.

Photographic coverage was provided in June 1985 with color film using the Wild RC-10 "Z" camera (focal length 153.15 millimeters) and in May 1985 with black and white infrared film using the Wild RC 10 "B" camera (focal length 152.74 millimeters) both sets are at 1:50,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center from data furnished by the aerotriangulation process.

Compilation was performed at the Atlantic Marine Center from office interpretation of the 1:50,000 scale color and infrared photography in March 1987.

Final review was performed at the Atlantic Marine Center in March 1987. A Chart Maintenance Print for Marine Charts and a Hydrographic Print for the Hydrographic Branch were forwarded. 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.

AEROTRIANGULATION REPORT
CM-8405
PT. AUGUSTA TO CRIST PT., ALASKA
JANUARY 1987

21. AREA COVERED

The area covered by this report is from Pt. Augusta to Crist Pt. to the west and Excursion Inlet to the north. Icy Strait passes through the center of this area. This area is covered by six 1:20,000-scale and one 1:10,000-scale manuscripts. The 1:20,000-scale manuscripts are TP-01309, TP-01310, TP-01311, TP-01313, TP-01314, and TP-01315. The 1:10,000-scale manuscript is TP-01312.

22. METHOD

Six strips of 1:50,000 and two strips of 1:30,000-scale color photographs were bridged and adjusted to ground with the IDPF system.

A magnetic tape of the bridge points was created for the Atlantic Marine Center. The positions of these bridge points are in plane coordinates using the Alaska State Plane Coordinate System (Zone 1) with the Oblique Mercator Projection. All data will be based on the North American Datum of 1927.

No fixed aids to navigation or landmarks were located during aerotriangulation.

Ratio values were determined for the color bridging photographs and the black-and-white infrared photographs.

23. ADEQUACY OF CONTROL

The horizontal control provided for this project was adequate. Fourteen horizontal control points were used in the adjustment. One station, 594101, would not fit into the adjustment by 458 feet. Nothing wrong could be found with this station. Ties were made between the overlapping strips. This project meets NOS requirements for map manuscripts.

24. SUPPLEMENTAL DATA

Nautical charts were used to try to identify objects on the color bridging photographs. USGS quadrangles were used for vertical control.

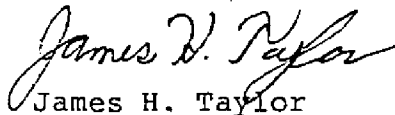
25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs proved adequate for this project. Most control station panels were difficult to identify and measure due to poor image quality. The original color film had to be ordered to help in the identification of targets. Once difficult targets were found, they were drilled on the film duplicates. No MLW, black-and-white infrared photographs were secured for manuscripts TP-01309 and TP-01310.

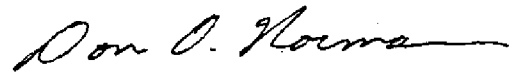
26. PHOTO HYDRO STATIONS

Eight photo hydro stations were established during field operations. Of the eight stations, only six could be positioned. The horizontal positions of these six stations are believed to be within ± 10 feet of their true ground position. Panel TC-15 could not be identified on the color bridging photographs, and panel TC-21 was too far beyond horizontal control to be included in the adjustment.

Submitted by:


James H. Taylor

Approved and Forwarded:


Don O. Norman
Chief, Aerotriangulation Unit

CM-8405
 FIT TO HORIZONTAL CONTROL
 ▲= CONTROL HELD

	PT. NO.	X	Y
▲GRASS 1981	226100	- 0.1	- 0.1
▲INNER 2, 1981 - SUB 1	228101	- 0.3	+ 0.4
▲SCRAGGY 1901	942100	+ 0.4	- 0.4
▲EGAN NO. 2 RM 2 - SUB 1	945101	- 0.1	+ 0.8
▲FIRST 2 - SUB 1	947101	- 0.2	- 2.1
▲FIT 2, 1925	951100	+ 0.3	+ 1.3
▲PEACH 2, 1922	933100	0.0	- 0.8
▲LIST 2, 1922	934100	- 1.1	- 0.1
▲EGAN NO. 2, RM 2 - SUB 1	957101	- 1.3	+ 2.3
▲EGAN 1959 - SUB 1	602101	+ 0.8	- 1.8
▲DAY 1922 - SUB 1	598101	- 0.1	+ 1.4
▲GENE 1949 - SUB 1	596101	- 0.5	- 0.5
GENE 1949 - SUB 1	594101	+458.5	- 6.6
▲EARTH 2, 1922 - SUB 1	937101	- 0.7	- 0.2
▲PULP 2, 1922 - SUB 1	936101	+ 0.3	- 0.4

CM-8405
RATIO VALUES

COLOR PHOTOGRAPHS

<u>PHOTOGRAPHS</u>	<u>RATIO</u>
85-ZC-2933A thru 2936A	2.412
85-ZC-2941A thru 2951A	2.412
85-ZC-2955A thru 2958A	2.412
85-ZC-3215 thru 3218	2.468
85-ZC-3224 thru 3229	2.466
85-ZC-3593 thru 3602	2.482
85-ZC-2980A thru 2981A	2.945
85-ZC-2965A thru 2968A	2.946

BLACK-AND-WHITE INFRARED PHOTOGRAPHS

<u>PHOTOGRAPHS</u>	<u>RATIO</u>
85-BR-5035 thru 5038	2.444
85-BR-5046 thru 5056	2.457
85-BR-5060 thru 5064	2.455
85-BR-5069 thru 5072	2.445
85-BR-5064 thru 5066	3.000
85-BR-5038 thru 5039	3.000

58°32'00"

TP-01309

594101

596101

JOB CM-8405
ICY STRAIT
ALASKA

SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000

HOR. CONTROL

58°22'00"

937101

TP-01311

936101

58°20'00"

598101

602101

957101

933100

TP-01312

58°12'00"

TP-01310

942100

58°10'00"

228101

226100

58°02'00"

TP-01313

945101

947101

TP-01315

TP-01314

951100

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

135°01'00"

134°51'00"

58°32'00"

TP-01309

JOB CM-8405

ICY STRAIT

ALASKA

SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000

1:30,000 COLOR PHOTOGRAPHS

58°22'00"

TP-01311

85-2C-
2977A

58°20'00"

TP-01310

58°12'00"

58°10'00"

85-2C-
2983A

TP-01312

TP-01315

TP-01313

58°02'00"

TP-01314

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

135°01'00"

134°51'00"

58°32'00"

TP-01309

85-2C-
3602

85-2C-
3218

58°22'00"

85-2C-
3215

85-2C-
2955A

85-2C-
2933A

TP-01311

58°20'00"

58°12'00"

TP-01310

85-2C-
2951A

85-2C-
3224

58°10'00"

85-2C-
3594

85-2C-
2937A

85-2C-2959A

TP-01312

85-2C-
3228

58°02'00"

TP-01313

TP-01314

TP-01315

85-2C-
2941A

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

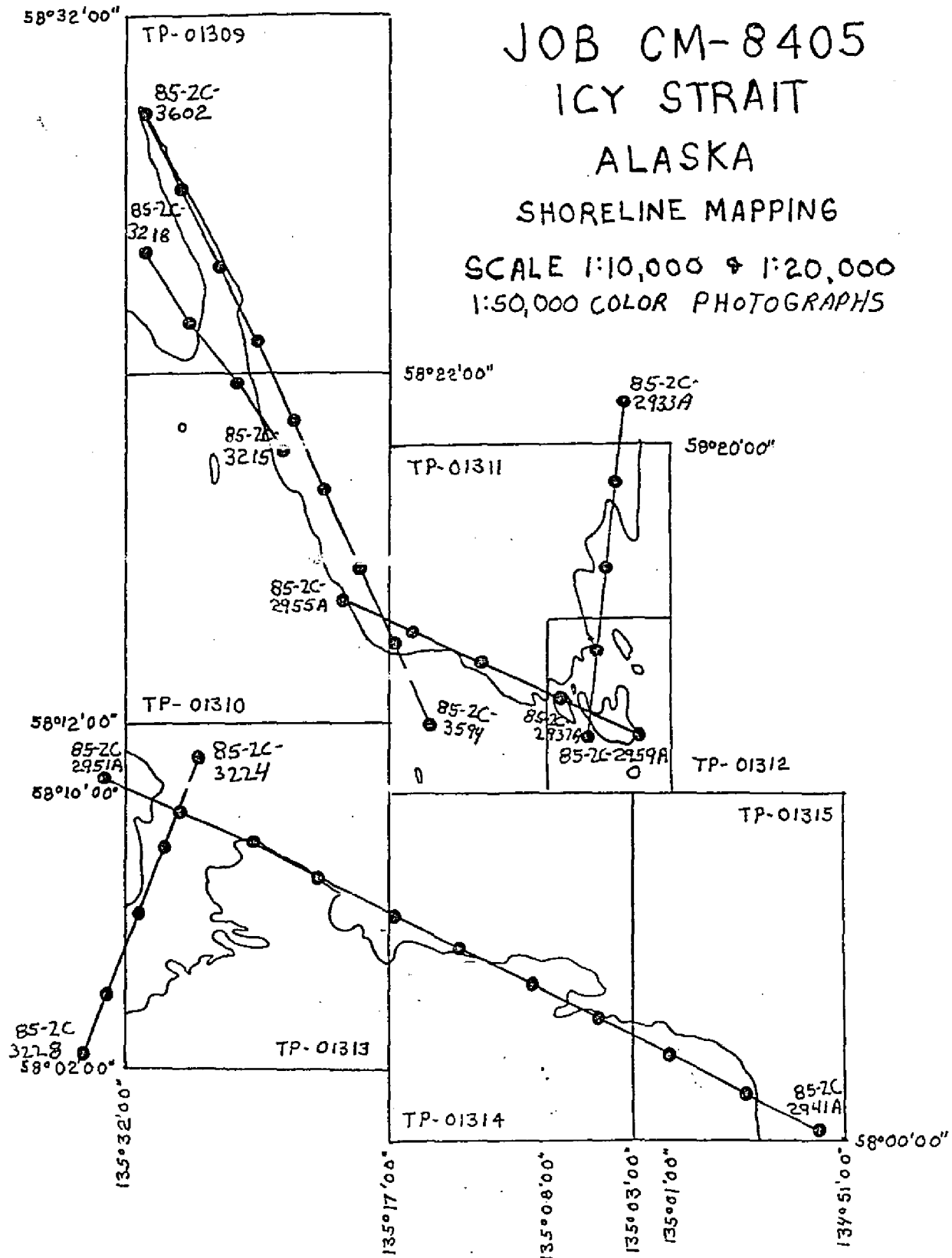
135°01'00"

134°51'00"

JOB CM-8405 ICY STRAIT ALASKA

SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000
1:50,000 COLOR PHOTOGRAPHS



58°32'00"

TP-01309

JOB CM-8405

ICY STRAIT

ALASKA

SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000

1:50,000 B & W INFRARED

58°22'00"

85-BR-5036

TP-01311

58°20'00"

85-BR-5060

TP-01310

58°12'00"

85-BR-5047

85-BR-5040

TP-01312

58°10'00"

85-BR-5055

85-BR-5073

TP-01315

85-BR-5070

TP-01313

58°02'00"

TP-01314

85-BR-5045

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

135°01'00"

134°51'00"

58°32'00"

TP-01309

JOB CM-8405

ICY STRAIT

ALASKA

SHORELINE MAPPING

SCALE 1:10,000 & 1:20,000

1:30,000 B & W INFRARED

58°22'00"

TP-01311

58°20'00"

58°12'00"

TP-01310

85-BA-5084

85-BA-5028

85-BA-5087

TP-01312

58°10'00"

85-BA-5032

TP-01315

58°02'00"

TP-01313

TP-01314

58°00'00"

135°32'00"

135°17'00"

135°08'00"

135°03'00"

135°01'00"

134°51'00"

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY		
TP-01313	CM-8405	NA 1927	Unit, AMC, Norfolk, VA		
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI-ANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION φ LATITUDE λ LONGITUDE	REMARKS
INNER 2, 1981		228100 ✓	x=	φ 58° 07' 56.637" ✓	
			y=	λ 135° 27' 48.498" ✓	
SCRAGGY, 1901	QUAD 581352 ✓	942100	x=	φ 58° 10' 28.805" ✓	
	STA 1044		y=	λ 135° 28' 16.165" ✓	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
COMPUTED BY		DATE	COMPUTATION CHECKED BY	DATE	
LISTED BY R. R. Kravitz		DATE 2-26-87	LISTING CHECKED BY F. Mauldin	DATE 3-17-87	
HAND PLOTTING BY		DATE	HAND PLOTTING CHECKED BY	DATE	

COMPILATION REPORT
TP-01313

31 - DELINEATION

Delineation was accomplished using Wild B-8 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 1985 bridging/compilation color photographs. Tide coordinated mean lower low water infrared ratio photographs were used to graphically compile the approximate mean lower low water line. Control for graphic delineation was provided by the instrument compilation of coastal detail and common image points.

Sisters Reef, located at approximately 58° 11.7' latitude and 135° 17.4' longitude, was compiled using Wild B-8 stereo instrument methods based upon office interpretation of the 1:50,000 scale 1985 infrared photographs. Control was provided by aerotriangulation and common image points. This method was used due to insufficient stereo photographic coverage of the area.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate.

32 - CONTROL

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated January 1987.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

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

35 - SHORELINE AND ALONGSHORE DETAILS

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

36 - OFFSHORE DETAILS

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

The mean lower low water infrared photographs were ratioed in order to graphically compile the approximate mean lower low water line as described in item #31.

37 - LANDMARKS AND AIDS

There were three charted aids to navigation and no landmarks within the limits of this map. Two of the aids were located/verified photogrammetrically.

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 Quadrangles:

Juneau (A-4), Alaska; dated 1948, minor revisions 1975; scale 1:63,360

Juneau (A-5), Alaska; dated 1951, minor revisions 1979; scale 1:63,360

47 - COMPARISON WITH NAUTICAL CHARTS

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

17300; 24th edition; dated June 15, 1985; scale 1:209,978

17316; 14th edition; dated October 30, 1982; scale 1:80,000

17302; 14th edition; dated October 3, 1981; scale 1:80,000

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by:

Robert R. Kravitz

Robert R. Kravitz

Cartographic Technician

Date: March 1987

Approved:

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

MAR 25 1987

GEOGRAPHIC NAMES

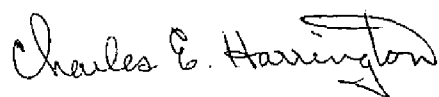
FINAL NAME SHEET

CM-8405 (Point Augusta to Crist Point, Alaska)

TP-01313

Cannery Point
Chichagof Island
Crist Point
False Point
Game Creek
Game Point
Gedney Channel
Grave Point
Halibut Island
Halibut Rock
Hoonah
Hoonah Harbor
Hoonah Island
Hoonah Point
Icy Strait
Long Island
Neck Point
Pinta Rock
Pitt Island
Point Sophia
Port Frederick
Scraggy Island
Spasski Bay
Spassiki Creek

Approved:



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

REVIEW REPORT
SHORELINE
TP-01313

61 - GENERAL STATEMENT

See Summary included with this descriptive 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. Quadrangles:

Juneau (A-4), Alaska dated 1948, minor revisions 1975 and Juneau (A-5), Alaska dated 1951, minor revisions 1979; both are scale 1:63,360.

64 - COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

Not applicable. This map will be registered as a Class III Final Map.

65 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS charts:

17302, 14th edition, dated October 3, 1981, scale 1:80,000,
17316, 14th edition, dated October 30, 1981, scale 1:80,000, and
17300, 24th edition, dated June 15, 1985, scale 1:209,978.

66 - ADEQUACY OF RESULTS AND FUTURE SURVEYS

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

Submitted by:

Lowell O. Neterer, Jr.
Lowell O. Neterer, Jr.
Final Reviewer
March 30, 1987

Approved for forwarding:

Billy H. Barnes
Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:

Judy O. Robson
Chief, Photogrammetric Production Sect.

A. J. Bryan
Chief, Photogrammetry Branch

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION

PROJECT NUMBER: CM-8405

PROJECT NAME: Point Augusta To Crist Point, Alaska

MAP NUMBER: TP-01313, scale 1:20,000

The following charted landmarks and nonfloating aids to navigation have been measured and/or confirmed during photogrammetric operations. All geographic positions are based on the N.A. 1927 Datum. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for clarification of NCD Quality (Q.C.) and Cartographic (CARTO) Codes.

<u>FEATURE DESCRIPTION</u>	<u>CARTO CODE</u>	<u>GEOGRAPHIC POSITION</u>		<u>NCD Q.C.</u>	<u>DATE OF PHOTO</u>
		<u>LATITUDE</u>	<u>LONGITUDE</u>		
Hoonah Breakwater Light 2	200	58° 06' 32.0"	135° 26' 54.4"	7	6-10-85
Hoonah Breakwater Light 3	200	58° 06' 26.6"	135° 26' 48.7"	7	6-10-85

Listing approved by:

OFFICE REVIEWER:

Fay Mauldin

DATE: 3/20/87

FINAL REVIEWER:

Lowell O. Kitchin

DATE: 3/27/87

