

TP 01309

TP-01309

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. TP-01309	Edition No. 1
Job No. CM-8405	
Map Classification CLASS III FINAL	
Type of Survey SHORELINE	
LOCALITY	
State ALASKA	
General Locality POINT AUGUSTA TO CRIST POINT	
Locality EXCURSION INLET	
19 ₈₅ TO 19	
REGISTERED IN ARCHIVES	
DATE	

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY

☒ ORIGINAL☐ RESURVEY☐ REVISEDSURVEY TP. 01309MAP EDITION NO. (1)MAP CLASS III FinalJOB RM CM-8405

PHOTOGRAMMETRIC OFFICE

Coastal Mapping Unit
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE

C. Dale North, Jr., CDR

LAST PRECEDING MAP EDITION

TYPE OF SURVEY

☐ ORIGINAL☐ RESURVEY☐ REVISEDJOB PHMAP CLASS

SURVEY DATES:

19 TO 19

I. INSTRUCTIONS DATED

1. OFFICE

Aerotriangulation November 3, 1986
Compilation February 19, 1987

2. FIELD

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)

STATE

Alaska

ZONE

5. SCALE

1:20,000

STATE

ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION	BY	J. Taylor	Jan. 1987
METHOD: <u>Analytic</u>	LANDMARKS AND AIDS BY	N.A.	
2. CONTROL AND BRIDGE POINTS	PLOTTED BY	F. Mauldin	Jan. 1987
METHOD: <u>Xynetics 1201</u>	CHECKED BY	F. Mauldin	Jan. 1987
3. STEREOSCOPIC INSTRUMENT	PLANIMETRY BY	P. Evans	Jan. 1987
COMPILATION	CHECKED BY	J. Byrd	Jan. 1987
INSTRUMENT: <u>Wild B-8</u>	CONTOURS BY	N.A.	
SCALE: <u>1:20,000</u>	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	P. Evans	Jan. 1987
	CHECKED BY	F. Mauldin	Feb. 1987
METHOD: <u>Smooth Drafted</u>	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: <u>1:20,000</u>	HYDRO SUPPORT DATA BY	P. Evans	Jan. 1987
	CHECKED BY	F. Mauldin	Feb. 1987
5. OFFICE INSPECTION PRIOR TO <u>Final Review</u>	BY	F. Mauldin	Feb. 1987
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW <u>Class III</u>	BY	F. Mauldin	Feb. 1987
8. FINAL REVIEW <u>Class III</u>	BY	L. O. Neterer, Jr.	Feb. 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-01309
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) R.C. 10 "Z" (f.l.=153.15mm)		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Alaska	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 135°	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
85Z(C)3602-3599	7-27-85	10:45	1:50,000	10.0 feet above MLLW	
85Z(C)3216-3218	6-28-85	13:25	1:50,000	5.4 feet above MLLW	
				Mean Tide Range 14.0 ft.	

REMARKS

Stage of tide is based on predicted tide data, using Excursion Inlet 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:

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
None	None	TP-01310	CM8404 TP-01318

REMARKS

CM-8404 will be compiled after this project.

TP-01309

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	Not Available	
2. HORIZONTAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
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	
	<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

Paneled

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
85Z(C)3602	GENE, 1949 (sub point paneled)		

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)

TP-01309

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation Complete	Feb. 1987	Class III Manuscript	None	None
Final Review	Feb. 1987	Final Class III Map	5/20/87	5/20/87

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: None3. ☐ 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 ~~567~~ 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 MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	

JOB CM-8405

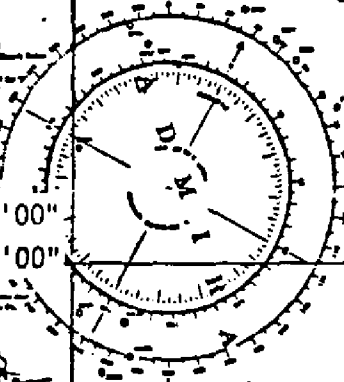
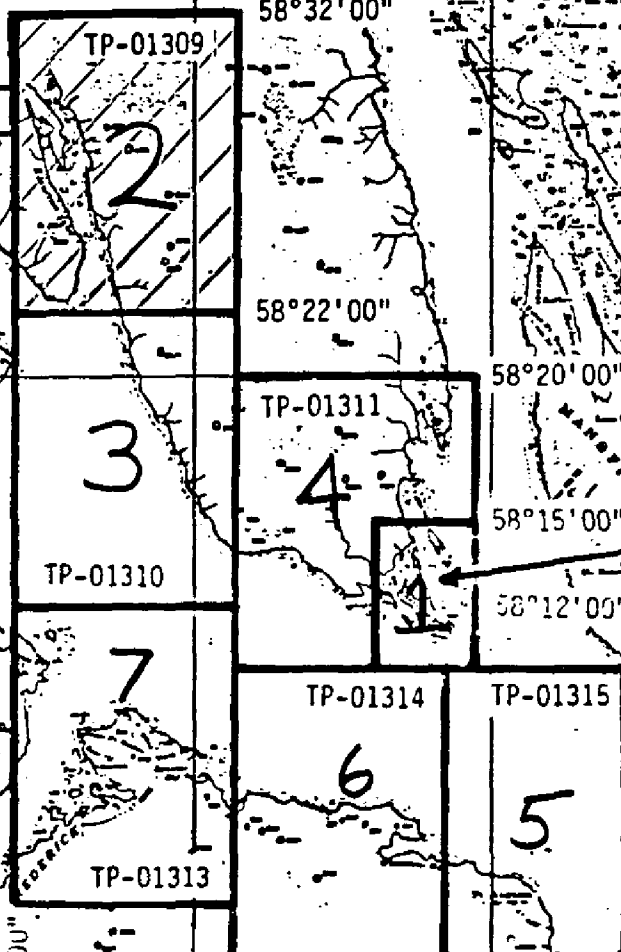
ICY STRAIT

PT. AUGUSTA TO CRIST PT.
ALASKA

SHORELINE MAPPING

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

TP-01312



G O F

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT
TP-01309

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 00' 00" north to latitude 58 32' 00", longitude 134 51' 00" west to 135 32' 00". It includes Excursion Inlet.

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 and July 1985 with color film using the Wild RC-10 "Z" camera (focal length 153.15 millimeters) at 1:50,000 scale.

Analytic aerotriangulation was performed at the Washington Science Center in January 1987. 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 1:50,000 scale color photography, in February 1987.

Final review was performed at the Atlantic Marine Center in February 1987. A chart Maintenance Print, for Marine Charts Branch, a Hydrographic Print, for the Hydrographic Branch, and a copy of the Hydrographic Print for the NOAA Ship FAIRWEATHER 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.

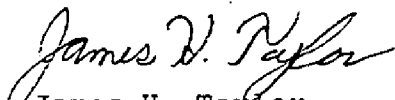
25. PHOTOGRAPHY

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.

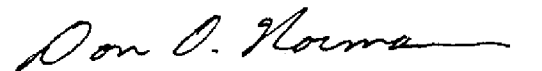
26. PHOTO HYDRO STATIONS

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

JOB CM-8405

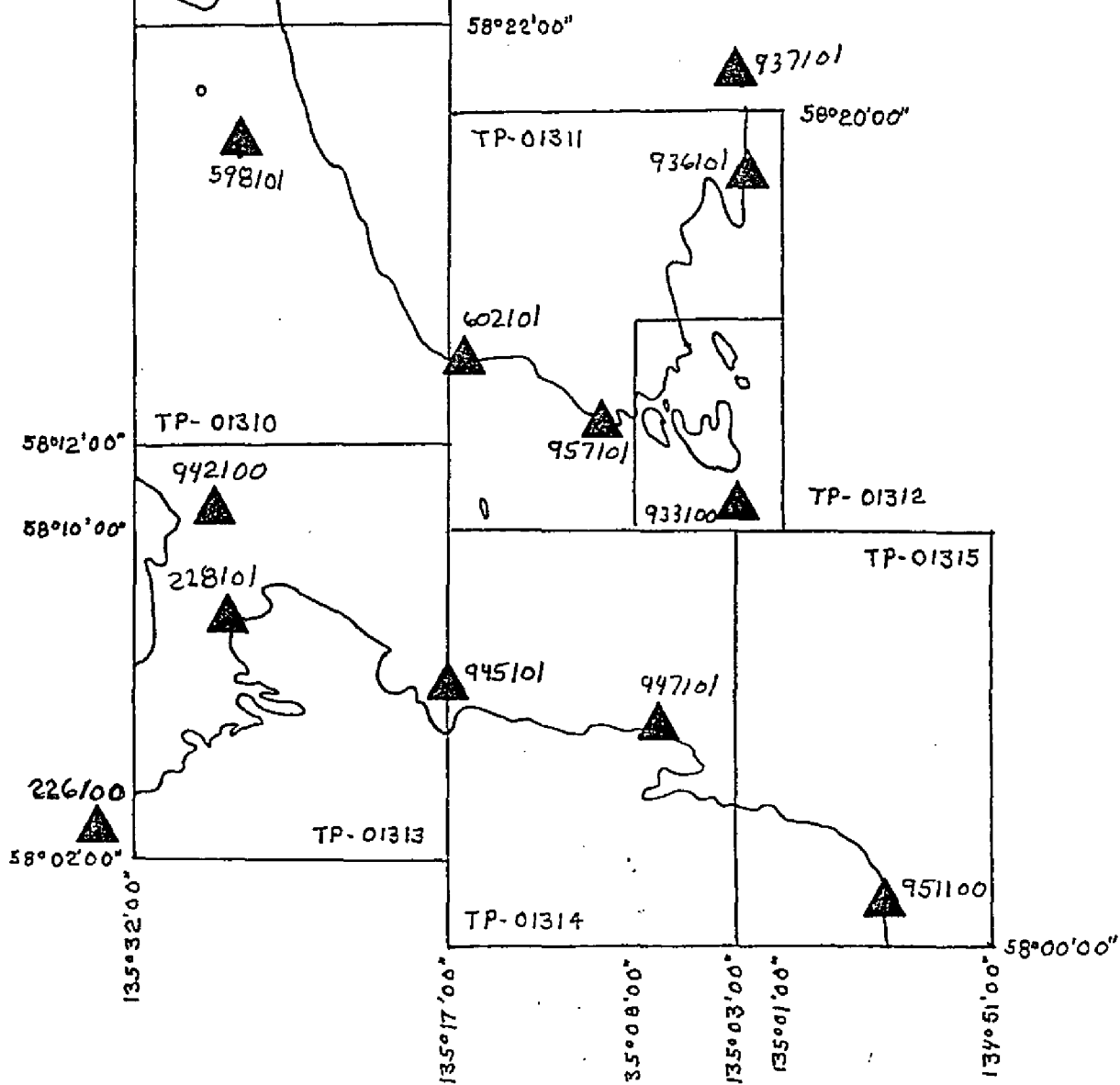
ICY STRAIT

ALASKA

SHORELINE MAPPING

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

HOR. CONTROL



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"

TP-01312

85-2C-
2983A

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°00'00"

134°51'00"

58°32'00"

JOB CM-8405

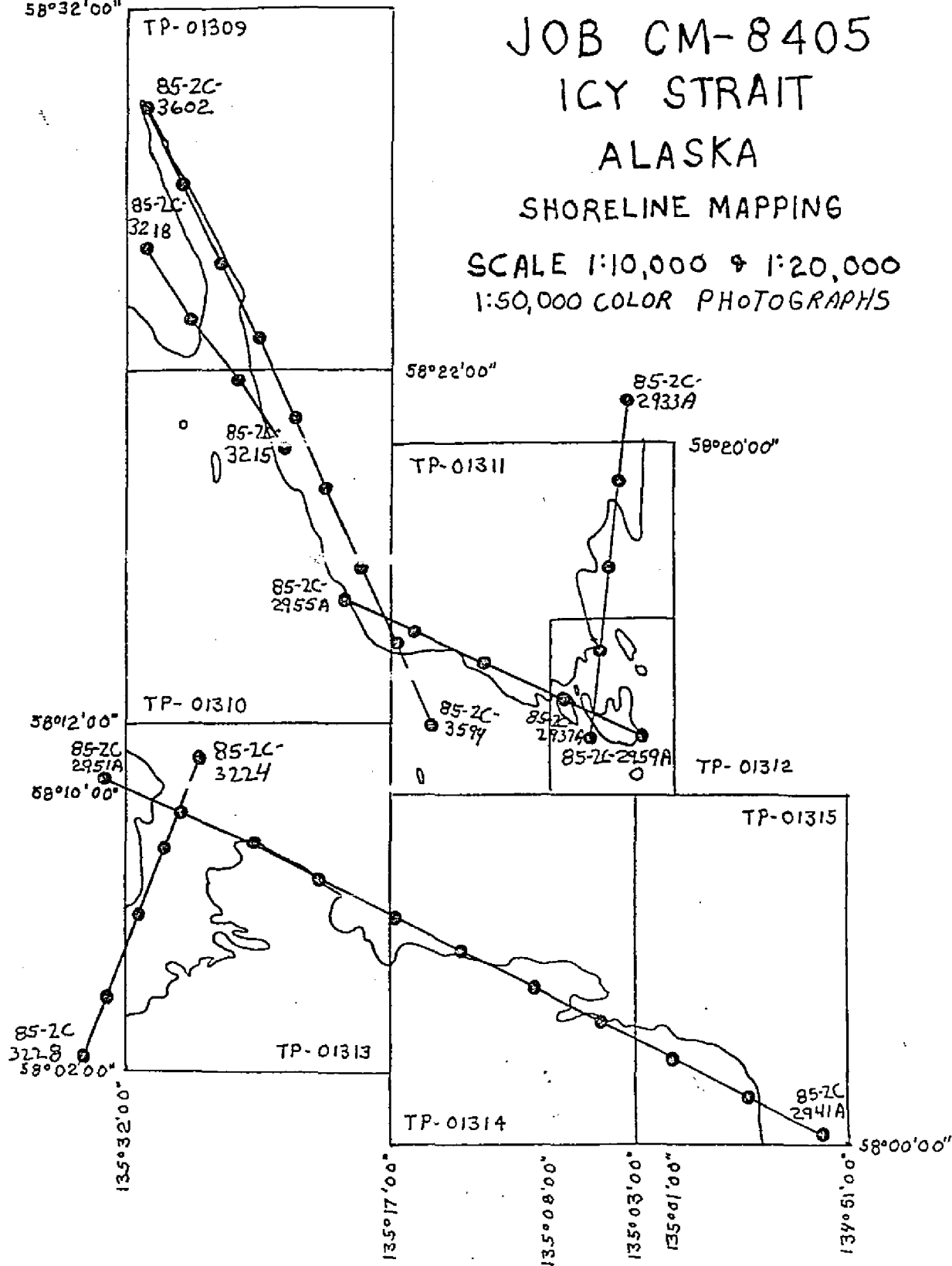
ICY STRAIT

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"

TP-01311

85-BR-5036

58°20'00"

58°12'00"

TP-01310

85-BR-5060

58°10'00"

85-BR-5055

85-BR-5073

85-BR-5070

TP-01313

58°02'00"

TP-01314

TP-01315

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

58°10'00"

85-BR-5084

85-BR-5018

85-BR-5087

TP-01312

85-BR-5032

TP-01315

CONTROL RECORD

STATION		ORIGINATING ACTIVITY		REMARKS
American 1927		Unit, AMC, Norfolk, VA		
IN FEET		GEOGRAPHIC POSITION		
aska		ϕ LATITUDE	λ LONGITUDE	
1		ϕ 58° 27' 02.893"		
		λ 135° 28' 38.052"		
		ϕ 58° 27' 49.579"		
		λ 135° 27' 33.994"		
		ϕ		
		λ		
		ϕ		
		λ		
		ϕ		
		λ		
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		λ		
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		λ		
		ϕ		
		λ		
		ϕ		
		λ		
CHECKED BY				DATE
F. Mauldin				DATE
ING CHECKED BY				DATE

COMPILATION REPORT
TP-01309

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

There was no mean lower low water infrared photo coverage for this map.

32 - CONRTROL

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 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 map.

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 map.

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 (B-5), Alaska; dated 1950; scale 1:63,360

Juneau (C-5), Alaska; dated 1948; 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

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


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

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

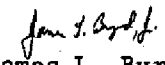
None.

ITEMS TO BE CARRIED FORWARD

None.

Submitted by: 
Paul L. Evans, Jr.
Cartographic Technician
Date: January 30, 1987

Approved:


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

GEOGRAPHIC NAMES

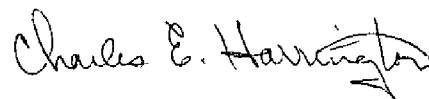
FINAL NAME SHEET

CM-8405 (Icy Strait, Alaska)

TP-01309

Excursion Inlet
Excursion Inlet (locality)
Icy Passage
Sawmill Bay

Approved:



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

REVIEW REPORT
SHORELINE
TP-01309

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 (B-5), Alaska, dated 1950 minor revisions 1966 and Juneau (C-5), Alaska, dated 1948; both are 1:63,360 scale.

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 and 17316, 14th edition, dated October 30, 1982; both are 1:80,000 scale.

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

February 13, 1987

Approved for forwarding:

Billy H. Barnes

Billy H. Barnes

Chief, Quality Assurance Group, AMC

Approved:

Jerry O. Fabian
Chief, Photogrammetric Production Sec.

D. Y. Benge
Chief, Photogrammetry Branch

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 Review.

[illegible]