TP-01318

TP-01318

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-01318	1

Job No.
CM-8404

Map Classification
FINAL CLASS III

Type of Survey
SHORELINE

LOCALITY

State
ALASKA

General Locality
ICY STRAIT, CRIST POINT TO IDAHO INLET

Locality
PLEASANT ISLAND

19 87 TO 19

REGISTERED IN ARCHIVES

DATE

* U.S. GOVERNMENT PRINTING OFFICE: 1980-665-115

NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.

DESCRIPTIVE REPORT - DATA RECORD

TYPE OF SURVEY: [X] ORIGINAL [ ] RESURVEY [ ] REVISED

SURVEY TP-01318
MAP EDITION NO. (1)
MAP CLASS III Final
JOB PH. CM-8404

PHOTOGRAMMETRIC OFFICE
Coastal Mapping Unit,
Atlantic Marine Center, Norfolk, VA

OFFICER-IN-CHARGE
C. Dale North, Jr.

LAST PRECEEDING MAP EDITION
TYPE OF SURVEY: [ ] ORIGINAL [ ] RESURVEY [ ] REVISED
JOB PH. ____
MAP CLASS ____
SURVEY DATES: 19__ TO 19__

I. INSTRUCTIONS DATED

1. OFFICE		2. FIELD	
Compilation	January 27, 1988	Field	March 23, 1987
		Change No. 1	April 13, 1987

II. DATUMS

1. HORIZONTAL:	[X] 1983 NORTH AMERICAN	OTHER (Specify)
2. VERTICAL:	[X] 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 N.A. ZONE N.A.
5. SCALE: 1:20,000		STATE ZONE

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	B. Thornton	Dec. 1987
	LANDMARKS AND AIDS BY	B. Thornton	Dec. 1987
2. CONTROL AND BRIDGE POINTS METHOD: Kongsberg Plotter	PLOTTED BY	B. Thornton	Dec. 1987
	CHECKED BY	D. Norman	Dec. 1987
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	P. Evans	Jan. 1988
	CHECKED BY	F. Mauldin	Feb. 1988
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	P. Evans	Jan. 1988
	CHECKED BY	F. Mauldin	Feb. 1988
METHOD: Smooth Drafted	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	P. Evans	Jan. 1988
	CHECKED BY	F. Mauldin	Feb. 1988
5. OFFICE INSPECTION PRIOR TO Final Review	BY	F. Mauldin	Feb. 1988
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW Class III	BY	F. Mauldin	Feb. 1988
8. FINAL REVIEW Class III	BY	L. O. Neterer, Jr.	Mar. 1988
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH	BY	L. O. Neterer, Jr.	May 1988
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH	BY	P. Dempsey	Jun 1988
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	S. Rikon	Dec 1988

NOAA FORM 76-36A SUPERSEDES FORM C&GS 181 SERIES

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

NOAA FORM 76-36B
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-01318

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S): Wild RC-10 (B) (B = 152.74mm)

TIDE STAGE REFERENCE
- [X] PREDICTED TIDES
- [ ] REFERENCE STATION RECORDS
- [ ] TIDE CONTROLLED PHOTOGRAPHY

TYPES OF PHOTOGRAPHY LEGEND
- (C) COLOR
- (P) PANCHROMATIC
- (I) INFRARED

TIME REFERENCE
ZONE: Alaska — [X] STANDARD
MERIDIAN: 135° — [ ] DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
87 BCN 5615-5618	6-04-87	0743	1:50,000	8.8 ft. above MLLW
87 BCN 5664-5669	6-04-87	0833	1:50,000	7.6 ft. above MLLW
87 BR 6381-6383	6-30-87	1648	1:50,000	11.4 ft. above MLLW
				Mean Tide Range = 13.5 ft.

REMARKS
Stage of tide for all photography was based on predicted tide data using the gage at Point Adolphus, Alaska.

2. SOURCE OF MEAN HIGH-WATER LINE:

The mean high-water line was compiled from office interpretation of the above listed photographs.

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
No Survey	CM-8405 TP-01309, TP-01310	TP-01321	TP-01317

REMARKS

NOAA FORM 76-36B
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36C
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

TP-01318

HISTORY OF FIELD OPERATIONS

I. [X] FIELD [redacted] OPERATION [ ] FIELD EDIT OPERATION

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Fredrick	May 1987
2. HORIZONTAL CONTROL	RECOVERED BY	M. Mozgala	May 1987
	ESTABLISHED BY	N.A.	
	PRE-MARKED OR IDENTIFIED BY	M. Mozgala	May 1987
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 [X] NO INVESTIGATION — BY		
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

Premarked

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME
87 BCN 5669	HELP, 1901
87 BCN 5615	DITCH, 1987 (Field Position)
87 BCN 5664	ANT, 1923
87 BCN 5664	KNOB, 1923

PHOTO NUMBER	STATION DESIGNATION

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 [X] NONE

6. BOUNDARY AND LIMITS: [ ] REPORT [X] NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (*Sketch books, etc.* **DO NOT** *list data submitted to the Geodesy Division*)

4 Forms 76-53

NOAA FORM 76-36C
(3-72)

*U.S. GOVERNMENT PRINTING OFFICE:1977-765-092

NOAA FORM 76-36D
(3-72)

U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

TP-01318

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	February 1988	Class III Manuscript		
Final Review	March 1988	Final Class III Map	Aug. 1988	Aug. 1988

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1		Aug. 1988	Charted landmarks and aids to navigation 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

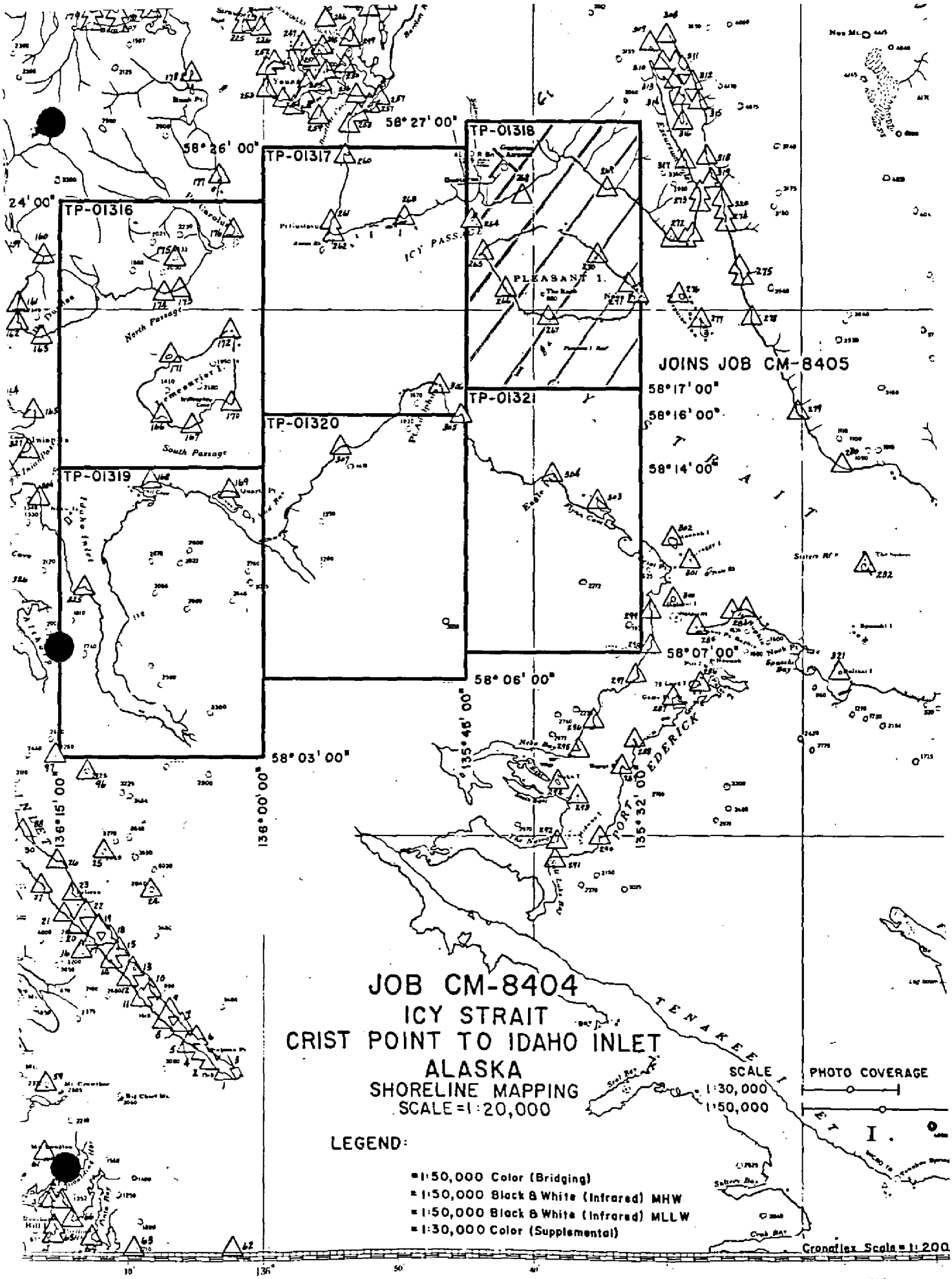
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.
2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 76-40 SUBMITTED BY FIELD PARTIES.
3. ☐ SOURCE DATA *(except for Geographic Names Report)* AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

4. ☐ DATA TO FEDERAL RECORDS CENTER. DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
THIRD EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (3)	PH- _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL
FOURTH EDITION	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
	TP - _____ (4)	PH - _____	☐ REVISED ☐ RESURVEY
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS ☐II. ☐III. ☐IV. ☐V. ☐FINAL

☆ U.S. GPO: 1977-765-092/1106 Region 6


TP-01316
TP-01317
TP-01318
TP-01319
TP-01320
TP-01321
58° 27' 00"
58° 26' 00"
58° 24' 00"
58° 17' 00"
58° 16' 00"
58° 14' 00"
58° 07' 00"
58° 06' 00"
58° 03' 00"
136° 15' 00"
136° 00' 00"
135° 45' 00"
135° 32' 00"
JOINS JOB CM-8405
PLEASANT I.
ICY PASS.
North Passage
South Passage
PORT EDERICK
TENAKEE I.
JOB CM-8404
ICY STRAIT
CRIST POINT TO IDAHO INLET
ALASKA
SHORELINE MAPPING
SCALE = 1:20,000
LEGEND:
= 1:50,000 Color (Bridging)
= 1:50,000 Black & White (Infrared) MHW
= 1:50,000 Black & White (Infrared) MLLW
= 1:30,000 Color (Supplemental)
SCALE
1:30,000
1:50,000
PHOTO COVERAGE
Crondlex Scale = 1:200

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01318

This 1:20,000 scale map is one of six maps, in project CM-8404, Icy Strait, Crist Point to Idaho Inlet, Alaska. The project extends from latitude 58° 03' 00" north to latitude 58° 27' 00", longitude 135° 32' 00" west to longitude 136° 15' 00".

Field work prior to compilation was accomplished during April and May 1987. This consisted of premarking triangulation stations to satisfy aerotriangulation requirements. In June 1987 after the photographs were taken one control station was photoidentified.

Photographic coverage was provided in June 1987 with both color and infrared film at 1:50,000 scale using the "B" camera (focal length 152.74 millimeters).

Analytic aerotriangulation was performed at the Washington Science Center in December 1987.

Compilation was performed at the Atlantic Marine Center, from office interpretation of the 1:50,000 scale color and infrared photography, in February 1988.

Final review was accomplished at the Atlantic Marine Center in March 1988. A Chart Maintenance Print, for Marine Chart Branch, two copies of *Notes for Hydrographer Print*, one for the Hydrographic Branch, the other for the NOAA ship FAIRWEATHER were prepared and forwarded.

A two times enlargement of this map, made in two parts, was sent to the NOAA ship FAIRWEATHER, with a disclaimer that the map area had been increased four times and the accuracy is unknown.

This map is to be registered as a Final Class III Map.

The original base manuscript 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

PACIFIC PHOTO PARTY

PROJECT REPORT CM-8404

ICY STRAIT 1987

SOUTHEAST ALASKA

I. AUTHORITY

By instruction of the Director, Pacific Marine Center.

II. DATES

Field work and paneling were accomplished during the period of April 21 to May 17, 1987. Photo Identification and the removal of panels was accomplished June 24-25, 1987.

III. PURPOSE

The purpose of this project was to panel horizontal control stations for aerial photography in accordance with CM-8404 Project Instructions, Icy Strait, Idaho Inlet to Crist Point, Alaska, Shoreline Mapping, dated March 23, 1987.

IV. TERRAIN AND WORKING CONDITIONS

The shoreline in the Icy Strait varies from rock shelf to boulder beaches with the former being the most prevalent. The treeline comes very close to shoreline in most areas.

The area between Gustavus to Point Gustavus is mud and sand. This area is changed from the depiction on both USGS Quad sheets and the Nautical Charts that were available and used by this field party. Trees now extend southward from the former shoreline in much of this area.

The basic horizontal control network in this area was established in 1901. After comparing the original descriptions with the existing terrain, it is apparent that the tree and tundra line have grown toward the shoreline approximately 20 feet and made the recovery of most marks very difficult.

Overcast skies, rain, snow and sleet was the predominant weather during this task. No time was lost to weather, however.

The paneling material used was commercial grade plastic reinforced with nylon thread and is almost bear proof, but no way was found to secure the material to the ground so that the bears couldn't rip the entire array from it's secured position. This was the case at several sites and these were re-paneled using the original material.

V. PERSONNEL

J. Gary Fredrick (NOS)
Marlene Mozgala (LT, NOAA)
Dan Maurice (Tempsco Helicopter Pilot)

VI. EQUIPMENT

Wild T-2 Theodolite
Hewlett Packard 3808A EDM
3-Prism Retro Reflectors
Wild adjustable tripods
30 meter steel tape
Magnavox 1502 Transit Satellite Receivers
Plastic Paneling Material
Hughes 500D Helicopter

VII. FIELD METHODS

Panels were directly installed over 12 existing control points. Nine (9) sub points were established using fixed control and azimuth, angle, distance or on line azimuth, distance. Two (2) stations were established by translocation, and 2 stations by conventional third order techniques.

After this project was flown and the photographs were examined, station TIDAL (Number 1) could not be identified. The field Party returned to the area in June to remove the panels. The panel at station TIDAL had been torn away. The wings were still secure and photo identifiable. The inside end of the most southeasterly wing, TIDAL SE WING (Number 1-A) was photoidentified at that time. The center of the three wings (station), is a boulder and probably will be visible.

Panels were secured by various techniques. Griffolyn Plastic Material T65 was used for all panels and wings. Griffolyn plastic clips were used with wire and or nylon line to then secure the material to wooden stakes or iron pins. This proved to be an effective method of paneling, with the exception of the plastic clips breaking when subjected to severe strain. This problem is going to be discussed with the manufacturer. Wire was used over the tops of panels in cases where they were subject to severe weather.

This field party was based in Juneau, using a contract helicopter from Tempsco Helicopter Inc. A Hughes 500D proved to be about the best transportation for the area. It's ability to land in very small areas with minimal blow down on panels is ideal. Equipment bulk is a problem with the Hughes 500 but not weight. The bulk problem was solved by caching equipment in the work area.

VIII. STATISTICS

NUMBER OF STATIONS RECOVERED	21
NUMBER OF PHOTO ID POINTS ESTABLISHED	1
NUMBER OF SUB POINTS ESTABLISHED	9
NUMBER OF STATIONS ESTABLISHED	4

IX. RECORDS

All photo points paneled or identified in the field have been described and positions entered on CSI cards. Aerial Photographs of each site are attached to the CSI cards. The data supporting these geographic positions is included on the CSI cards. Translocation solutions and conventional 3rd order surveys have been retained for submission to the National Geodetic Survey.

X. RESULTS

A table of NAD 83 geographic positions follows:

DIRECT OR SUBSTITUTE STATIONS IDENTIFIED FOR PROJECT CM-8404

NO	STATION	LATITUDE	LONGITUDE
1	TIDAL	58,04,16.613	136,06,03.609
1A	TIDAL SE WING	58,04,16.484	136,06,03.272
2	IDAHO 1970	58,09,28.836	136,13,15.301
3	ICY 1970	58,12,56.558	136,16,30.744
4	GLORIA 1970	58,16,10.954	136,20,03.361
5	BAN 1901	58,20,02.107	136,18,17.253
6	DEED 1901	58,21,04.689	136,17,37.122
7	TOWN 1938 SUB PT	58,24,48.638	136,03,15.903
8	DAM 1901 SUB PT	58,20,42.175	136,08,32.088
9	DAM 1901	58,19,08.821	136,02,27.081
10	YAK 1901	58,15,48.046	136,07,57.536
11	LACK 1901 SUB PT	58,13,29.285	136,08,23.450
12	JOG 1901 SUB PT	58,13,05.609	136,02,32.915
13	MUD BAY	58,11,00.410	135,59,36.824
14	DAMP 1901 SUB PT	58,14,46.921	135,54,20.214
15	ADOLPHUS 2 1922	58,17,09.847	135,46,58.184
16	PT GUSTAVUS WEST BASE 1923	58,22,47.408	135,54,44.931
17	OOPS	58,23,13.034	135,49,27.324
18	DITCH	58,23,54.640	135,42,32.170
19	GENE SUB PT	58,27,00.556	135,27,18.692
20	ANT 1923	58,22,02.097	135,44,01.316
21	KNOB 1923 SUB PT	58,20,47.754	135,42,26.396
22	HELP 1901 SUB PT	58,20,23.425	135,32,10.373
23	EAGLE 1922	58,13,54.846	135,38,41.748
24	EAGLE 1922 SUB PT	58,12,10.258	135,34,58.623
25	SCRAGGY 1901	58,10,27.582	135,28,22.670

AEROTRIANGULATION REPORT
CM-8404
ICY STRAIT, CRIST POINT TO IDAHO INLET,
ALASKA

DECEMBER 1987

21. AREA COVERED

This report covers the Icy Strait, Alaska area from Crist Point to Idaho Inlet. The project consists of six 1:20,000-scale sheets; TP-01316 through TP-01321.

22. METHOD

Nine strips of 1:50,000-scale color photographs were bridged by analytical aerotriangulation methods using the STK comparators. They were adjusted to ground using the General Integrated Analytical Triangulation Program (GIANT). Pre-marked control stations were used as horizontal control. Common points were transferred between strips to ensure adequate junctioning.

Ratio values were determined for the bridging photographs and the 1:50,000-scale MHW infrared photographs. There were no MLLW infrared photographs. A copy of these values and a sketch of the photo coverage are attached to this report.

The base manuscripts were plotted on the Kongsberg plotter. The positions are in the Alaska State Plane Coordinate System, Zone 1. This is an oblique Mercator projection. All positions are based on NAD 1983. In addition, 10mm ticks depicting NAD 1927 projection intersections were plotted at twice the interval of the NAD 1983 projection intersections.

23. ADEQUACY OF CONTROL

The control was adequate and meets the National Ocean Service requirements. A listing of closures to control is attached.

24. SUPPLEMENTAL DATA

USGS topographic quadrangles were used to obtain vertical control for bridging. NOS Nautical Charts were used to locate aids and landmarks.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the photographs were adequate for the job.

Submitted by,

Brian Thornton
Vic McNeel

Approved and Forwarded:

Don O. Norman
Chief, Aerotriangulation Unit

RATIO VALUES
CM-8404

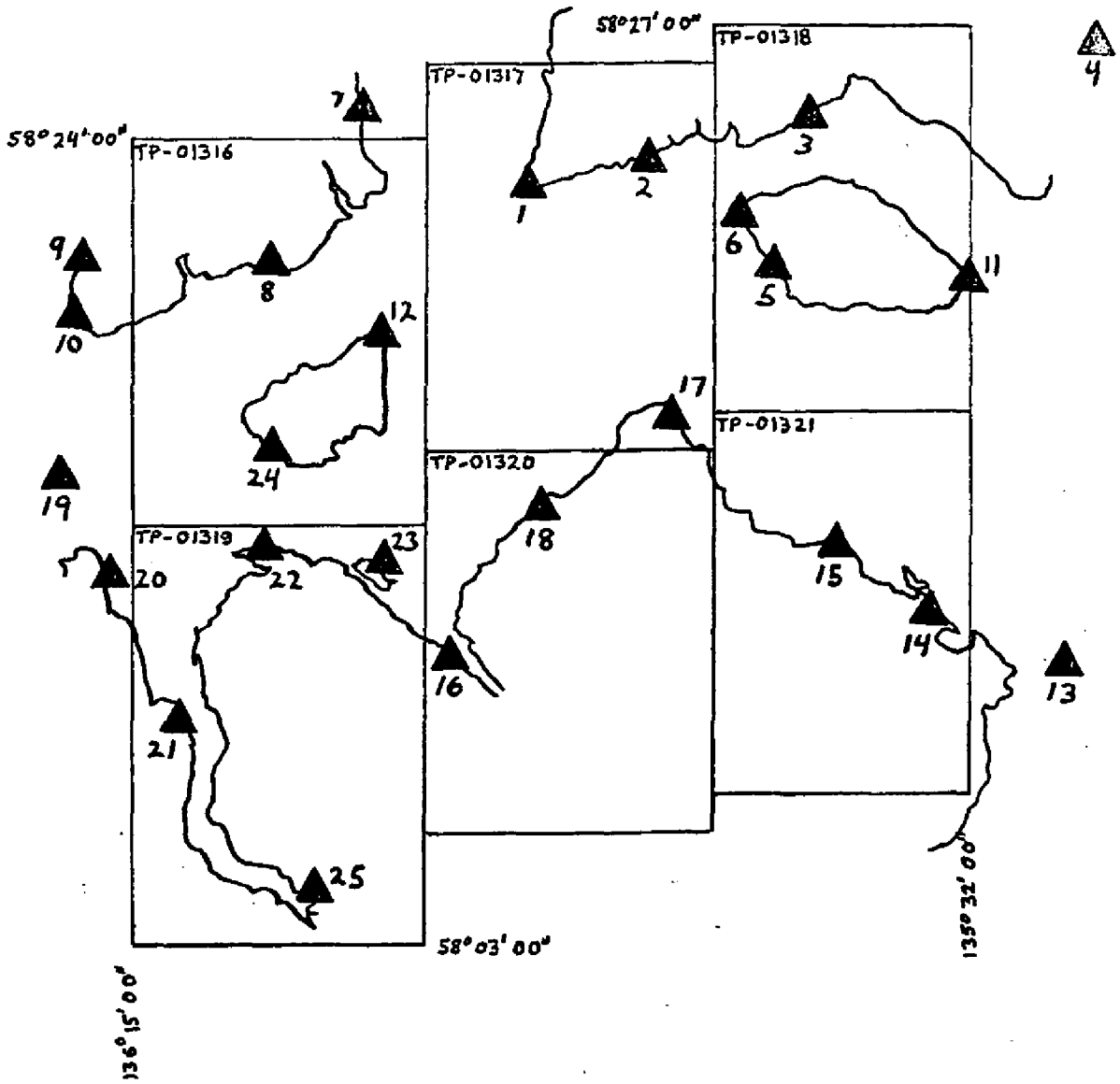
1:50,000 Bridging Photographs	Ratio Value
87 B(CN) 5612-5620	2.45
87 B(CN) 5639-5642	2.48
87 B(CN) 5649-5655	2.47
87 B(CN) 5664-5669	2.48
87 B(CN) 5677-5683	2.48
87 B(CN) 5689-5692	2.48
87 B(CN) 5697-5701	2.48
87 B(CN) 5708-5715	2.48
87 B(CN) 5719-5729	2.47
MHW 1:50,000 Black and White Infrared	
87 B(R) 6375-6379	2.46
87 B(R) 6381-6389	2.46

FIT TO CONTROL

	STATION NAMES	POINT NO.	VALUES IN FEET X	Y
1.	Pt. Gustavus West Base, 1923	612100	+0.2	0.0
2.	Oops	613100	+0.6	+1.5
3.	Ditch	615100	-0.3	-0.3
4.	Gene, sub. point	619101	-0.9	+1.7
5.	Knob 1923, sub. point	641101	+0.1	-0.5
6.	Ant 1923	642100	+0.7	-0.2
7.	Town 1938, sub. point	649101	+0.3	+0.3
8.	Dam 1901, sub. point	652101	-0.5	-0.4
9.	Deed 1901	654100	-0.3	0.0
10.	Ban 1901	655100	+0.6	+0.1
11.	Help 1901, sub. point	669101	-0.5	-2.2
12.	Dam 1901	652100	-0.1	-1.1
13.	Scraggy 1901	677100	+0.3	-0.5
14.	Eagle 1922, sub. point	679101	-0.4	+0.6
15.	Eagle 1922	680100	+0.1	+0.2
16.	Mud Bay	692100	0.0	+3.4
17.	Adolphus 2, 1922	697100	+0.4	+0.2
18.	Damp 1901, sub. point	699101	-0.1	-1.1
19.	Gloria 1970	708100	+1.4	+0.9
20.	Icy 1970	710100	-1.9	-0.3
21.	Idaho 1970	711100	-2.1	-1.0
22.	Lack 1901 sub. point	723101	-0.1	-2.0
23.	Jog 1901 sub. point	725101	+2.6	0.0
24.	Yak 1901	726100	-0.4	+0.1
25.	Tidal S.E. Wing	715101	+0.3	+0.9

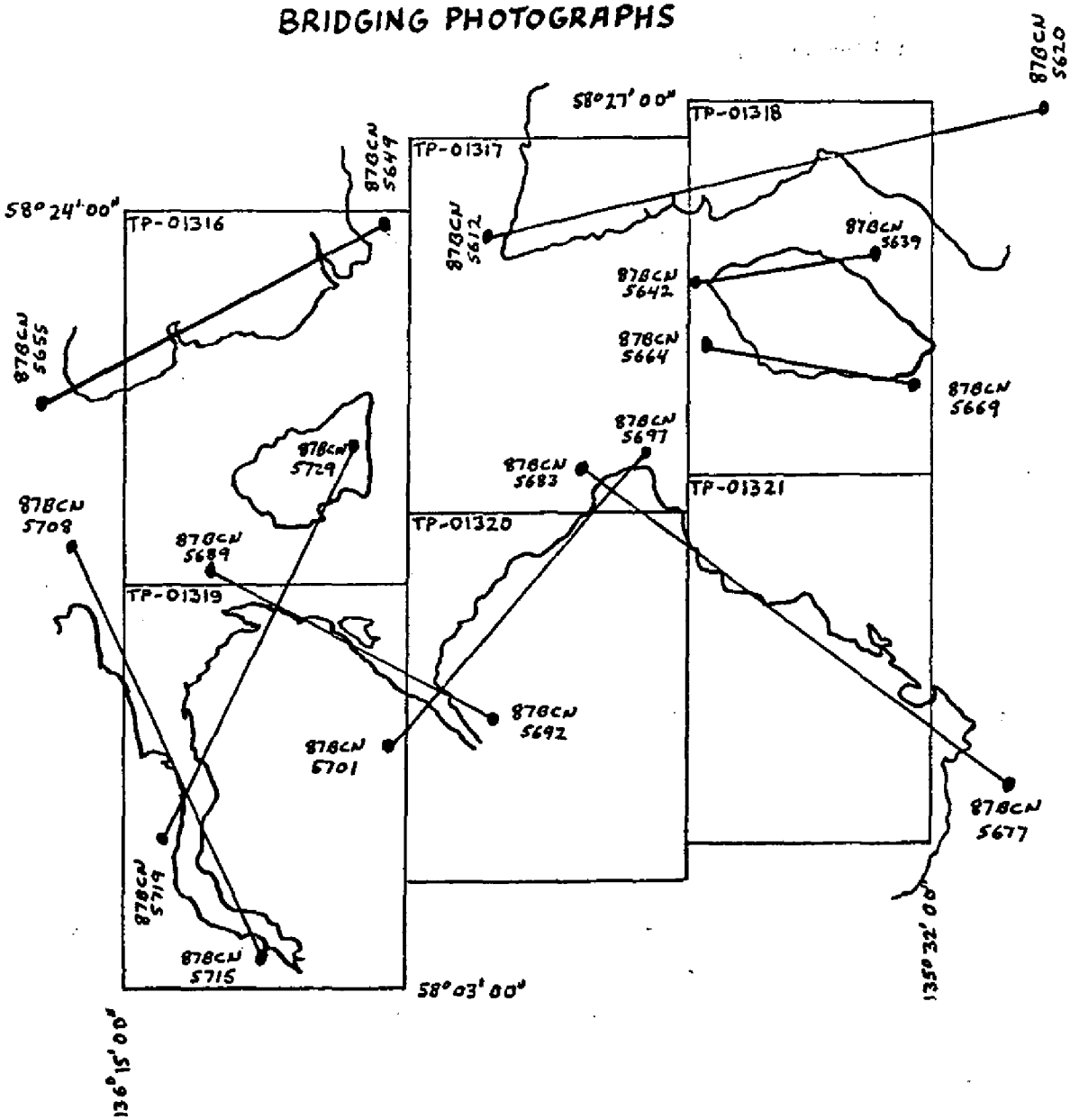
JOB CM-8404
ICY STRAIT
CRIST POINT TO IDAHO INLET
ALASKA
SHORELINE MAPPING
SCALE=1:20,000

HORIZONTAL CONTROL

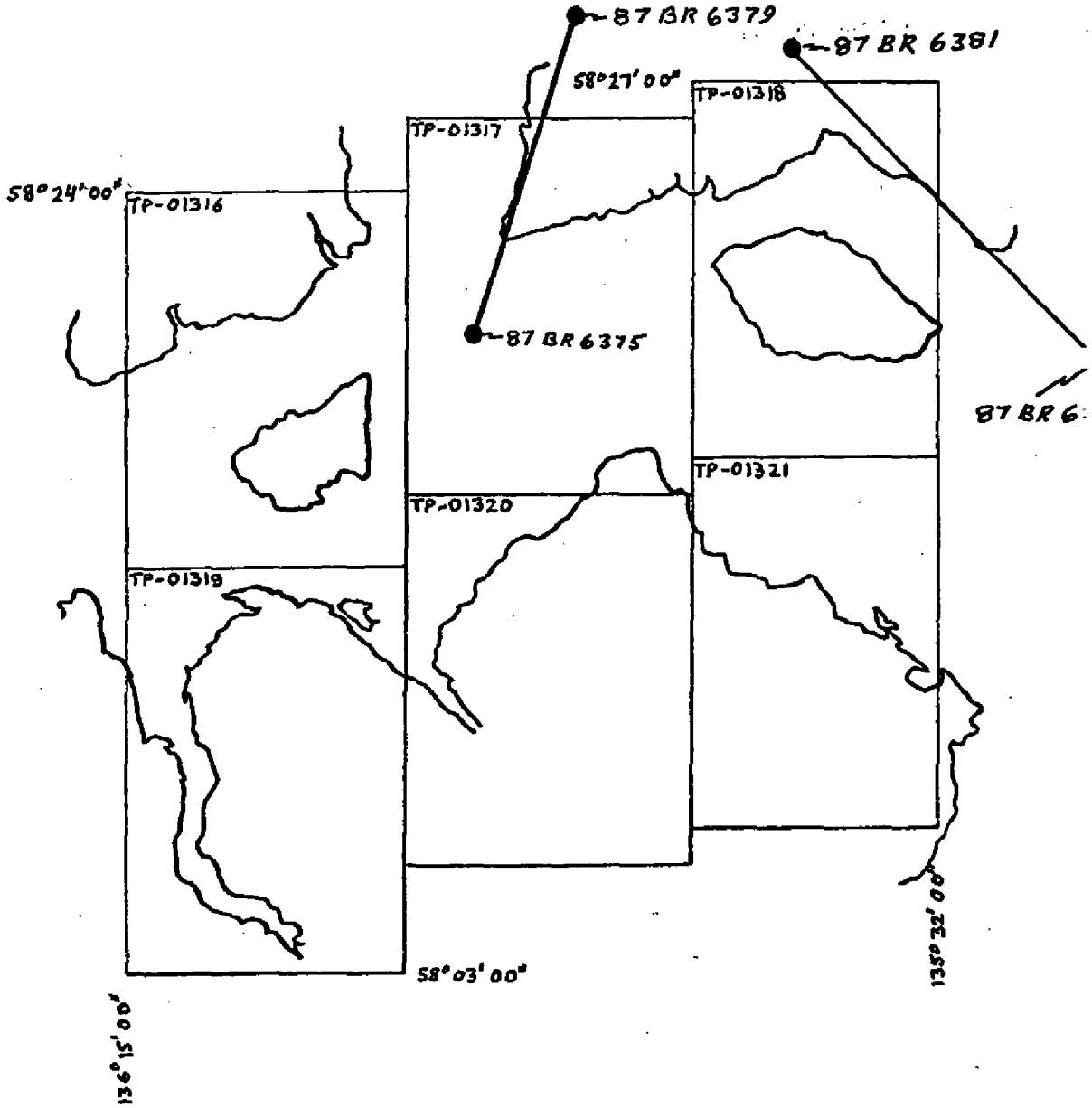


JOB CM-8404
ICY STRAIT
CRIST POINT TO IDAHO INLET
ALASKA
SHORELINE MAPPING
SCALE=1:20,000

BRIDGING PHOTOGRAPHS



JOB CM-8404
ICY STRAIT
CRIST POINT TO IDAHO INLET
ALASKA
SHORELINE MAPPING
SCALE=1:20,000



1:50,000 BLACK & WHITE (INFRARED) MHW

NOAA FORM 76-41
(6-75)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	GEODETIC DATUM	ORIGINATING ACTIVITY
TP-01318	CM-8404	N.A. 1983	Coastal Mapping 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
HELP, 1901	Field Control Book	669100	x=	φ 58° 20' 23.377"	Recovered Aero Plot
			y=	λ 135° 32' 11.011"	
DITCH, 1987	Field Control Book	615100	x=	φ 58° 23' 54.640"	Recovered Aero Plot
			y=	λ 135° 42' 32.170"	
ANT, 1923	Field Control Book	642100	x=	φ 58° 22' 02.097"	Recovered Aero Plot
			y=	λ 135° 44' 01.316"	
KNOB, 1923	Field Control Book	641100	x=	φ 58° 20' 47.818"	Recovered Aero Plot
			y=	λ 135° 42' 26.049"	
			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 P. L. Evans, Jr.	DATE 1/88	LISTING CHECKED BY F. Mauldin	DATE 2/2/88
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

TP-01318

31. DELINEATION:

Delineation was accomplished using Wild B-8 stereo instrument compilation methods to delineate shoreline, alongshore, and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. Infrared ratio photographs were used to supplement the bridging/compilation photographs where coverage was available. The available infrared coverage was taken based on predicted tides referred to mean high water.

All photographs used to compile this map are listed on NOAA form 76-36B. The photography was adequate. There were no mean lower low water infrared photographs for this map.

32. CONTROL:

The horizontal control was adequate. Refer to the Aerotriangulation Report, dated December 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 bridging/compilation photographs. Black and white infrared ratioed photographs were used to assist in the interpretation of the mean high water line as described in item #31.

36. OFFSHORE DETAILS:

Offshore detail was compiled by instrument methods using the 1:50,000 scale bridging/compilation color photographs as described in item #31.

TP-01318

37. LANDMARKS AND AIDS:

There are three charted landmarks and one charted aid to navigation within the limits of this map. Among these, one landmark and one aid 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 (B-5), Alaska; dated 1950, minor revisions 1966; scale 1:63,360
Juneau (B-6), Alaska; dated 1948, minor revisions 1967; 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

TP-01318

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

Paul L. Evans, Jr.
Cartographic Technician
January 28, 1988

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8404 (Icy Strait, Crist Point to Idaho Inlet, Alaska)

TP-01318

Gustavus

Gustavus Airport

Icy Passage

Icy Strait

Noon Point

Pleasant Island

Pleasant Island Reef

Salmon River

Approved:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

REVIEW REPORT
SHORELINE

TP-01318

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 USGS quadrangles: Juneau (B-5), Alaska, dated 1950, minor revisions 1966 and Juneau (B-6), Alaska dated 1948, minor revision 1967; both 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 NOS Charts:

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

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
Lowell O. Neterer, Jr.
Final Reviewer
March 1988

Approved for forwarding:
Billy H. Barnes
Billy H. Barnes
Chief, Quality Assurance Group, AMC

Approved:
Larry O. Rahorn
Chief, Photogrammetric Production Sec.

O. Y. Bryson
Chief, Photogrammetry Branch

CHARTED LANDMARKS AND NONFLOATING AIDS TO NAVIGATION LISTING

PROJECT: CM-8404

MAP NUMBER (Scale); Locality: TP-01318, 1:20,000; Icy Strait, Christ Point to Idaho Inlet, Alaska

GEODETIC DATUM: N.A. 1983

The following charted landmarks and nonfloating aids to navigation have been measured and or confirmed during photogrammetric operations. Refer to Nautical Charting Division Standard Digital Data Exchange Format documentation for quality code (QC) criteria and clarification of cartographic codes (CC).

FEATURE DESCRIPTION	NCD CC	GEOGRAPHIC POSITION (°-'-") LATITUDE	LONGITUDE	NCD Q.C.	DATE OF LOCATION
Icy Passage Light 2	200	58° 23' 10.9"	135° 37' 42.7"	7	6-04-87
Aero R. Bn. Gustavus Airport	086	58° 25' 17.8"	135° 42' 21.9"	7	6-04-87

Listing approved by: Lowell O. Whitehead
FINAL REVIEWER

March 1988
DATE

FORM C&GS-8352
(3-20-63)

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 Review.

CHART	DATE	CARTOGRAPHER	REMARKS
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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