

TP-01163

TP-01163

NOAA FORM 76-35  
(6-80)U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## DESCRIPTIVE REPORT

THIS MAP WILL NOT BE FIELD EDITED

<i>Map No.</i> TP-01163	<i>Edition No.</i> 1
<i>Job No.</i> CM-8203	
<i>Map Classification</i> CLASS III, FINAL	
<i>Type of Survey</i> SHORELINE	
LOCALITY	
<i>State</i> ALASKA	
<i>General Locality</i> SEYMOUR CANAL	
<i>Locality</i> KING SALMON BAY	
19 83 TO 19	
REGISTERED IN ARCHIVES	
DATE	

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. 01163	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS III FINAL	
				<input type="checkbox"/> REVISED		JOB <del>XPR</del> CM-8203	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Unit, AMC, Norfolk, VA				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE  A. Y. Bryson, CDR				TYPE OF SURVEY		JOB PH. _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation February 15, 1984 Compilation September 06, 1984				Field March 9, 1983			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input checked="" type="checkbox"/> MEAN LOW-WATER <input type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION  Oblique Mercator				4. GRID(S)			
				STATE Alaska		ZONE 1	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		May 1984	
METHOD: Analytic LANDMARKS AND AIDS BY				D. Norman		May 1984	
2. CONTROL AND BRIDGE POINTS PLOTTED BY				B. Thornton		May 1984	
METHOD: Calcomp 718 CHECKED BY				D. Norman		May 1984	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				R. Kravitz		Aug. 1984	
COMPILATION CHECKED BY				W. McLemore		Aug. 1984	
INSTRUMENT: Wild B-8				N.A.			
SCALE: 1:20,000				N.A.			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				R. Kravitz		Sept. 1984	
CHECKED BY				F. Mauldin		Oct. 1984	
METHOD: Smooth drafted and				N.A.			
graphic				N.A.			
SCALE: 1:20,000 HYDRO SUPPORT DATA BY				N.A.			
CHECKED BY				N.A.			
5. OFFICE INSPECTION PRIOR TO FINAL REVIEW				F. Mauldin		Oct. 1984	
6. APPLICATION OF FIELD EDIT DATA BY				N.A.			
CHECKED BY				N.A.			
7. COMPILATION SECTION REVIEW CLASS III BY				F. Mauldin		Oct. 1984	
8. FINAL REVIEW CLASS III BY				L. O. Neterer, Jr.		Nov. 1984	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				L. O. Neterer, Jr.		NOV 1984	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				P. Hawkins		DEC 1984	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. S. KORUSPAN		FEB 1985	

TP-01163  
COMPILATION SOURCESU. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10(B) Focal Length=152.74mm		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
83 B(C) 4571 - 4574*	July15,1983	14:25	1:50,000	4.9 ft. above MLLW	
83 B(I) 4673 - 4676**	July16,1983	11:34	1:30,000	1.6 ft. above MLLW	
83 B(I) 4692 - 4695**	July16,1983	11:56	1:30,000	1.0 ft. above MLLW	
83 B(I) 4744 - 4749**	July16,1983	12:18	1:30,000	0.8 ft. above MLLW	
83 B(I) 4760 - 4765**	July16,1983	12:40	1:30,000	0.9 ft. above MLLW	
Mean Tide Range=12.9 ft.					

## REMARKS

\*Compilation/bridging photographs.

\*\*Approximate centers shown on manuscript, ratios not processed.

## 2. SOURCE OF MEAN HIGH-WATER LINE:

The Mean High Water Line was compiled from office interpretation of the 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 black-and-white infrared photography.

## 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	No survey	TP-01164	No survey

## REMARKS

TP-01163

## HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. M. Wintermyre	May 1983
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None None None
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None None None
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	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

None

2. VERTICAL CONTROL IDENTIFIED

None

PHOTO NUMBER	STATION NAME	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 ☒ 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)

None

NOAA FORM 76-36D  
(3-72)TP-01163  
RECORD OF SURVEY USEU. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete	October 1984	Class III manuscript	JAN 1985	
No field edit was performed prior to Final Review	October 1984	Final Class III Map		

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

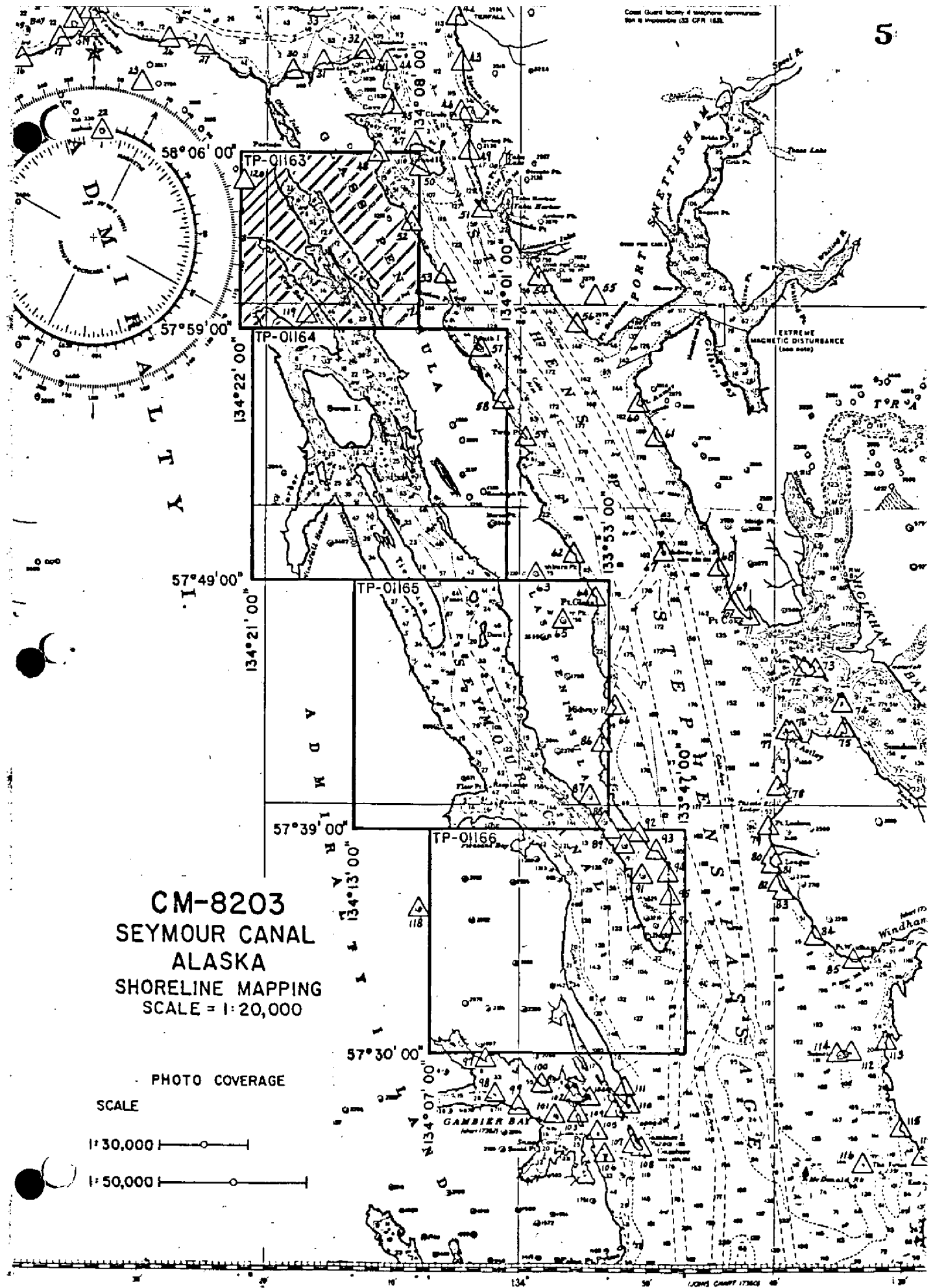
1. ☒ BRIDGING PHOTOGRAPHS; ☒ DUPLICATE BRIDGING REPORT; ☒ COMPUTER READOUTS.  
 2. ☒ CONTROL STATION IDENTIFICATION CARDS; ☐ FORM NOS 567 SUBMITTED BY FIELD PARTIES.  
 3. ☒ SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C.  
 ACCOUNT FOR EXCEPTIONS:

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	
	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	

NOAA FORM 76-36D



CM-8203  
SEYMOUR CANAL  
ALASKA  
SHORELINE MAPPING  
SCALE = 1:20,000

PHOTO COVERAGE  
SCALE  
1:30,000  
1:50,000

Coast Guard facility & telephone communication  
data is provided (US CGR 163)

EXTREME  
MAGNETIC DISTURBANCE  
(see note)

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT

TP-01163

This 1:20,000 scale shoreline map is one of the four maps in project CM-8203, Seymour Canal, Alaska.

The project encompasses the mouth of Seymour Canal, Latitude  $57^{\circ}30'30''$  north to its headspring, Latitude  $58^{\circ}06'00''$ .

No field edit will be performed as per Project Instructions dated September 6, 1984.

Field work prior to compilation was accomplished in May 1983. It was comprised of both the identification of horizontal control and hydrographic signals by premarking techniques to meet aerotriangulation requirements.

Color and infrared photography was taken in July 1983 with the "B" camera (focal length 152.74 mm). The color photography (1:50,000 scale) was used for bridging and instrument compilation. The infrared photography (1:30,000 scale) was used to graphically compile the mean lower low water line.

Analytic aerotriangulation was completed at the Washington Science Center in May 1984.

Compilation was performed at the Atlantic Marine Center in October 1984 from office interpretation of the 1983 photography.

Final review was executed at the Atlantic Marine Center in November 1984. There will be no field edit on this map which requires it 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.

## Shoreline Mapping Report

Job CM-8203

Seymour Canal, Alaska

Shoreline mapping operations in Seymour Canal, Alaska (Job CM-8203) were undertaken concurrently with Special Project S-0902-DA-83. Four 1:50,000 scale aerotriangulation control panels were placed in the vicinity of Seymour Canal with a fifth panel located in Stephens Passage, north of Seymour Canal. Thirty-three 1:30,000 scale hydrographic control panels were placed in locations advantageous in controlling future hydrographic survey operations. The first panel was laid down on 28 April 1983 with operations concluding on 24 May.

### 1:50,000 Aerotriangulation Control

Three 1:50,000 Aerotriangulation Control Panels were placed within the limits shown on the sketch included with project instructions (sketch attached). The remaining two panel locations were placed as near as possible to the desired area, due to topographic constraints found within the proposed panel areas. Station SEYMOUR, 2 km north of the limits for Panel #4, and station WEED, 4.5 km West Northwest of the proposed limit for panel #3 were both paneled outside the limits shown in sketch included with the project instructions. Four stations within Seymour Canal were paneled to specifications of Array #1 as shown in Photogrammetric Instructions #22. The four stations were established and field geographic positions determined during the course of operations for S-0902-DA-83. Station GUNT was paneled direct, using only 2 rays, due to the small size of the island upon which it is located. A sub-station was established for station MOLE in Pleasant Bay, as the station is located in a rocky area near the treeline. A 2-ray variation of Array #1 was used. This subpointed location also serves as HP-01, a 1:30,000 hydrographic control site. Station WEED was paneled direct on a grass-covered peninsula, utilizing three rays. At station SEYMOUR, Reference Mark 1 was paneled direct with 2 rays. The fifth 1:50,000 scale panel was placed at station RAIN 1917. The station mark was recovered well inside of the treeline, so the reference mark was paneled direct using a 2-ray variation of Array #1 as shown. A recovery note was submitted as required for this station. Station descriptions were prepared and submitted for stations GUNT, MOLE, WEED, and SEYMOUR with the horizontal control data for S-0902-DA-83.

### 1:30,000 Hydrographic Control Panels

Hydrographic control panels were placed in thirty-three locations to supplement the established horizontal control network. The majority of these panels were set in small bays and passages where the terrain was suited to the placement of the panel



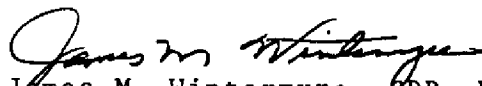
and the location was deemed advantageous as a control point for hydrography. Array #2 panel and spacing dimensions were followed as closely as possible, but in several cases, a 3-ray version was required. A copy of the large scale chart of the area is included with this report showing the locations of all hydrographic control panels as well as the aerotriangulation control panels. Hydrographic control panel locations were numbered from HP-01 through HP-39, with the exclusion of HP-23 through HP-28, which were used to designate similar panel locations in Kelp Bay (Job CM-8204).

Respectfully submitted,



Mark P. Koehn, LT, NOAA  
Horizontal Control Officer

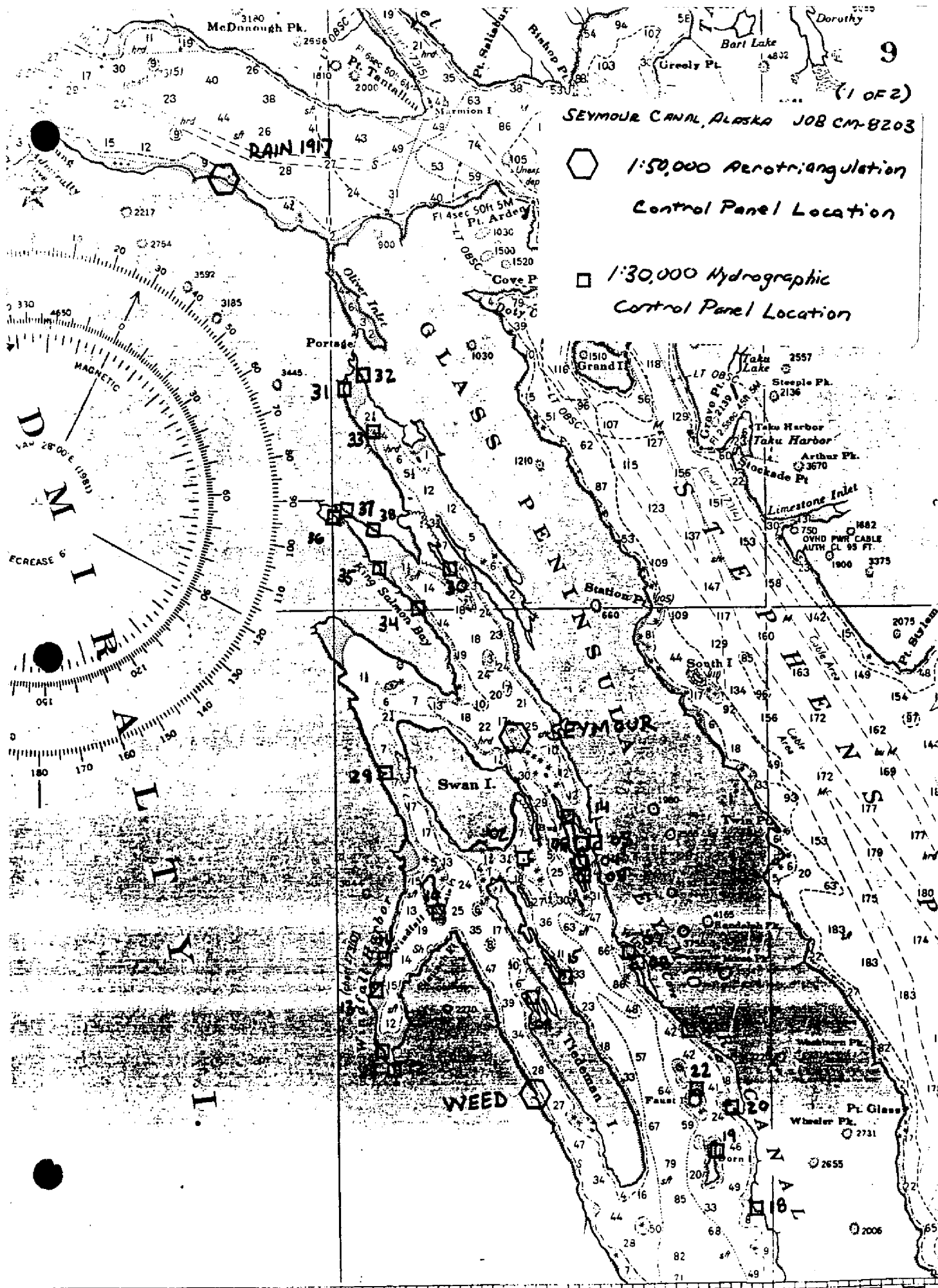
Approved and forwarded,

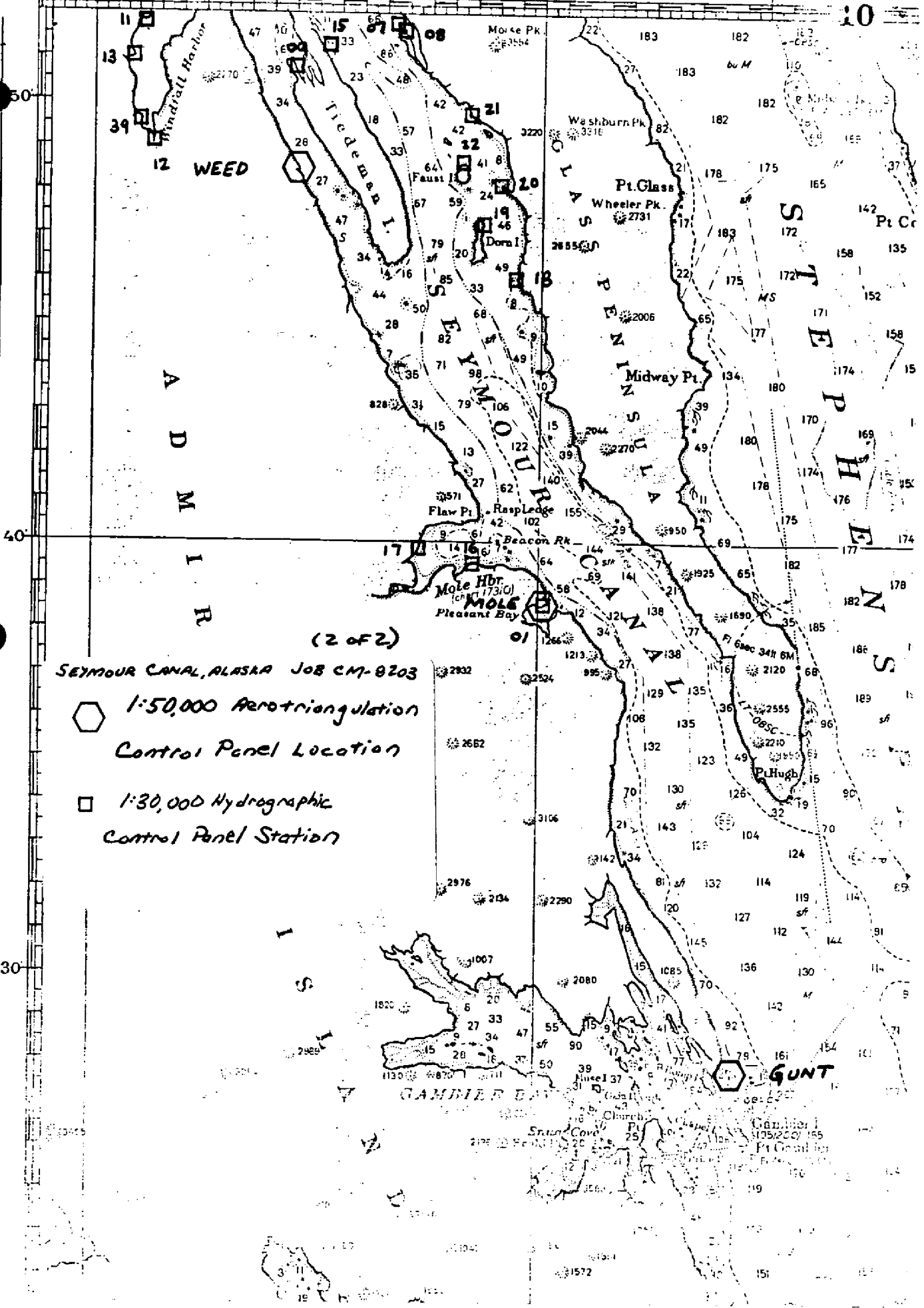


James M. Wintermyre, CDR, NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

1:50,000 Aerotriangulation  
Control Panel Location

□ 1:30,000 Hydrographic  
Control Panel Location





(2 of 2)  
SEYMOUR CANAL, ALASKA JOB CM-9203

- 1:50,000 Aerotriangulation Control Panel Location
- 1:30,000 Hydrographic Control Panel Station

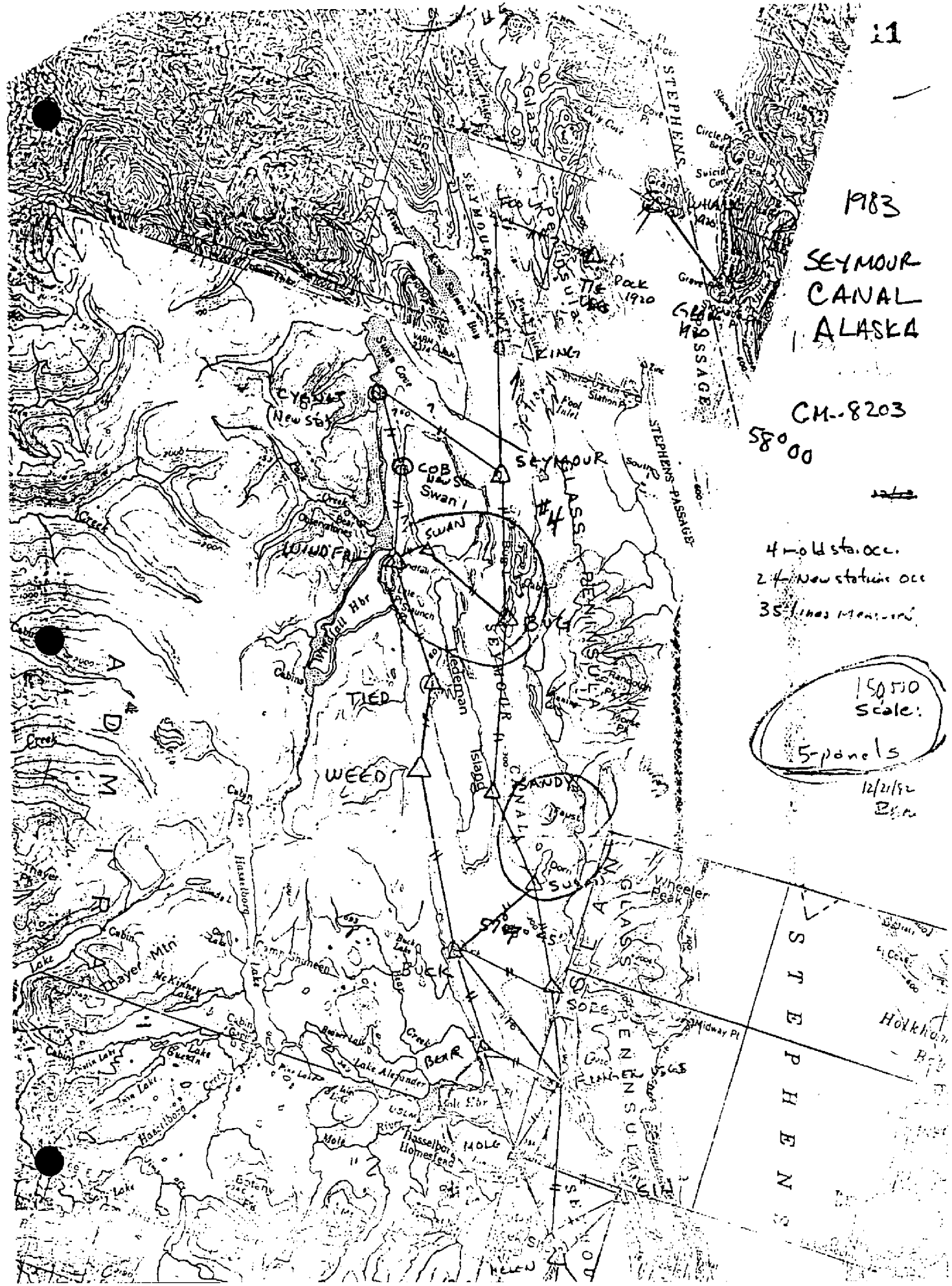
1983  
SEYMOUR  
CANAL  
ALASKA

CM-8203

58°00

- 4 - old sta. occ.
- 2 - new stations occ
- 35 - lines measured

150,000  
Scale:  
5-panels  
12/2/82  
B.M.



CM-8203  
PHOTOGRAMMETRIC PLOT REPORT  
SEYMOUR CANAL, ALASKA

MAY 1984

21. AREA COVERED

This project covers Seymour Canal, Alaska. The area is covered by four 1:20,000-scale sheets, TP-01163 to TP-01166.

22. METHOD

Three strips of 1:50,000-scale color photographs were bridged by analytical aerotriangulation methods using premarked control for shoreline mapping. Tie points were used to aid control and ensure a good adjustment between strips. Tie points were also dropped to four strips of 1:30,000-scale color photographs to be used as control to adjust these strips. The 1:30,000-scale color photographs were bridged by analytical aerotriangulation methods using the tie points from the 1:50,000-scale color photographs to provide positions for premarked hydrographic points. Of the 33 hydrographic points, 26 points were visible on the photographs and subsequent positions determined for these points. The original film was used for bridging the entire project. The photographs were adjusted using the Alaska, Zone 1 Coordinate System.

Ratio values were determined for the 1:50,000-scale bridging photographs and the 1:30,000-scale MLLW photographs. Base sheets were ruled on the Calcomp 718 plotter using the Alaska, Zone 1 Coordinate System.

23. ADEQUACY OF CONTROL

The control for this project was adequate for the job and within NOS accuracy standards. A copy of the fit to control is included in this report.

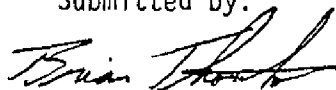
24. SUPPLEMENTAL DATA

USGS quadrangles were used to provide vertical control for strip adjustments.

25. PHOTOGRAPHY

The coverage, overlap, and quality of the 1983 B(C) photographs were adequate for the job.

Submitted by:



Brian Thornton

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

FIT TO CONTROL  
VALUES IN FEET  
STATION HELD IN ADJUSTMENT

<u>STRIP #</u>	<u>STATION NAME</u>	<u>POINT NO.</u>	<u>X</u>	<u>Y</u>
50-1	Strip 50-2 Tie point	581802	0	0.4
	Mole, 1983 sub pt.	581101	-0.5	1.4
	Strip 50-2 tie point	582801	1.4	-2.7
	Strip 50-2 tie point	583801	-0.6	1.5
	Strip 50-2 tie point	584801	-0.4	-0.6
50-2	Rain, 1917 (RM)	568101	-0.7	0.5
	Seymour, 1983 (RM.1)	574101	2.0	-1.5
	Weed, 1983	577100	-0.8	-0.1
	Mole, 1983 sub pt.	581101	-1.2	2.0
	Gunt, 1983	586100	0.7	-0.9
50-3	Strip 50-2 tie point	582803	0	0
	Strip 50-2 tie point	582804	-0.7	0.6
	Strip 50-2 tie point	580803	0.2	1.0
	Strip 50-2 tie point	578806	0	0
	Weed, 1983	577100	0.8	-2.0
	Strip 50-2 tie point	575809	-0.2	0
	Strip 50-2 tie point	574806	0	0
30-1A	Strip 50-2 tie point	579801	1.7	2.2
	Strip 50-2 tie point	579802	-1.0	-1.0
	Strip 50-2 tie point	579803	-0.9	-1.0
	Strip 50-2 tie point	578801	1.0	0.4
	Strip 50-2 tie point	578802	-0.5	-0.7
	Strip 50-2 tie point	578803	-0.1	-0.1
30-1B	Strip 50-2 tie point	576801	-1.7	-0.2
	Strip 50-2 tie point	576802	0.4	-0.6
	Strip 50-2 tie point	576803	-0.4	-0.4
	Strip 50-2 tie point	576804	0.9	0.9
	Strip 50-2 tie point	576805	0	-0.4
	Strip 50-2 tie point	575801	1.5	1.4
	Strip 50-2 tie point	575802	-1.0	0.1
	Strip 50-2 tie point	575803	-0.3	-1.4
	Strip 50-2 tie point	575804	-0.1	0.6
	Strip 50-2 tie point	575805	0.7	-0.4
30-2A	Strip 50-2 tie point	568801	-0.1	-1.0
	Strip 50-2 tie point	568802	3.4	-0.3
	Strip 50-2 tie point	568803	-0.9	0.1
	Strip 50-2 tie point	569801	0.1	-1.1
	Strip 50-2 tie point	569802	0.7	0.5

2

<u>STRIP #</u>	<u>STATION NAME</u>	<u>POINT NO.</u>	<u>X</u>	<u>Y</u>
30-2A	Strip 50-2 tie point	569803	2.5	0.1
	Strip 50-2 tie point	570801	3.4	1.4
	Strip 50-2 tie point	570802	0.6	0.2
	Strip 50-2 tie point	570803	1.0	2.4
	Strip 50-2 tie point	571803	-0.8	0.1
	Strip 50-2 tie point	571801	-0.2	0.7
	Strip 50-2 tie point	571802	0.6	0.4
	Strip 50-2 tie point	572802	0.6	-0.1
	Strip 50-2 tie point	572801	-0.1	-1.6
	Strip 50-2 tie point	572802	0	-0.3
	Strip 50-2 tie point	572803	-0.6	-0.5
	Strip 50-2 tie point	572804	-0.4	-0.7
	Strip 50-2 tie point	572805	-1.1	-0.8
	Strip 50-2 tie point	573801	1.3	0.9
	Strip 50-2 tie point	573802	-0.8	-0.4
	Strip 50-2 tie point	573803	-0.3	-0.5
	Strip 50-2 tie point	573804	1.6	1.9
	Strip 50-2 tie point	573805	-2.9	3.9
30-2B	Strip 50-2 tie point	575805	-1.6	0.4
	Strip 50-2 tie point	575807	1.5	0.8
	Strip 50-2 tie point	575808	0.1	-0.2
	Strip 50-2 tie point	576804	0.5	0
	Strip 50-2 tie point	576806	-1.7	-1.2
	Strip 50-2 tie point	576807	2.3	0.2
30-3	Strip 50-3 tie point	837801	0.3	-0.2
	Strip 50-3 tie point	837802	-0.2	0.2
	Strip 50-3 tie point	836801	0.9	0.2
	Strip 50-3 tie point	836802	-1.0	-0.2
	Strip 50-3 tie point	837803	-0.5	-0.3
	Strip 50-3 tie point	837804	0.6	-0.3
30-4	Strip 50-3 tie point	843803	-1.0	1.4
	Strip 50-3 tie point	844801	1.4	0.4
	Strip 50-3 tie point	844802	-0.1	-0.9
	Strip 50-3 tie point	844803	-0.7	-0.1
	Strip 50-3 tie point	842802	0.2	-0.5
	Strip 50-3 tie point	842803	1.2	0.3
	Strip 50-3 tie point	843801	-0.7	-0.4
	Strip 50-3 tie point	843802	0.3	-0.5
	Strip 50-3 tie point	842801	-0.3	-0.8
	Strip 50-3 tie point	842804	-0.8	0.9
	Strip 50-3 tie point	842805	0.4	0.2
	Strip 50-3 tie point	842806	0	-0.9
	Strip 50-3 tie point	842807	0.2	0.9



## RATIO VALUES FOR SEYMOUR CANAL, ALASKA

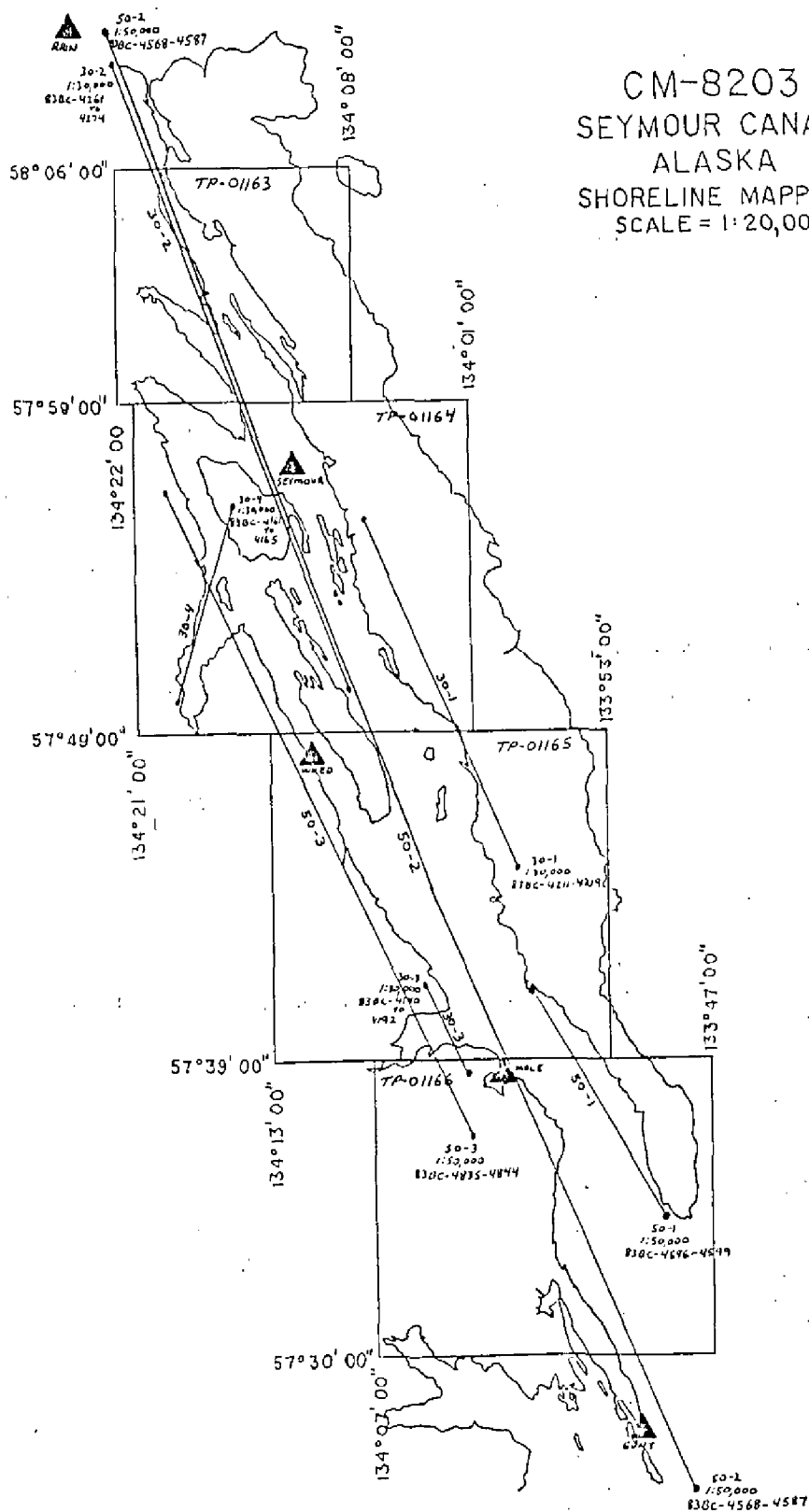
## MLLW PHOTOGRAPHY

IR-1	83-BR-4671 to 4683	Ratio 1.532X
IR-2	83-BR-4692 to 4716	Ratio 1.521X
IR-3	83-BR-4724 to 4749	Ratio 1.511X
IR-4	83-BR-4760 to 4783	Ratio 1.528X
IR-5	83-BR-4787 to 4795	Ratio 1.526X

## BRIDGING PHOTOGRAPHY

50-1	83-BC-4596 to 4599	Ratio 2.543X
50-2	83-BC-4571 to 4585	Ratio 2.540X
50-3	83-BC-4835 to 4844	Ratio 2.538X

CM-8203  
SEYMOUR CANAL  
ALASKA  
SHORELINE MAPPING  
SCALE = 1:20,000



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		ORIGINATING ACTIVITY	
					COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>	COASTAL MAPPING UNIT, Marine Center, Norfolk, VA		
TP-01163	CM-8203	NONE				N.A. 1927	φ LATITUDE λ LONGITUDE	REMARKS
COMPUTED BY								DATE
LISTED BY								DATE
HAND PLOTTING BY								DATE

COMPILATION REPORT  
TP-01163

31 - DELINEATION

Delineation was accomplished using stereo instrument and graphic compilation methods. Instrument compilation was used to delineate shoreline, alongshore and interior detail based upon office interpretation of the 1:50,000 scale bridging/compilation color photographs. Predicted tide MLLW infrared ratio photographs were used to graphically compile the approximate mean lower low water line. Control for this graphic delineation was provided by the instrument compilation of coastal detail and common image points.

All photographs used to compile the map are listed on form 76-36B. The color compilation photography was adequate. The quality of the infrared photography was poor with regard to identifying precise image points common to the compilation photographs.

32 - CONTROL

The horizontal control was adequate. Refer to the Photogrammetric Plot Report dated May 1984.

33 - SUPPLEMENTAL DATA

None.

34 - CONTOURS AND DRAINAGE

Contours are not applicable to the project. Drainage was compiled by office interpretation of the photographs.

35 - SHORELINE AND ALONGSHORE DETAILS

The mean high water line was compiled from office interpretation of the compilation color photographs.

Although the scale of photography was 1:50,000, an attempt was made to distinguish between the ledge and rocky areas. Foreshore areas of scattered rocks were generally represented by individual rocks. The ledge symbol was used in areas of rock density and where the ledge was apparent.

36 - OFFSHORE DETAILS

Offshore detail was compiled by instrument methods as described in item #31.

In order to graphically compile the approximate mean lower low water line as described in item #31, the MLLW infrared photographs were ratioed as follows:

TP-01163

83 B(I) 4673 - 4676	1.532 times
83 B(I) 4692 - 4695	1.521 times
83 B(I) 4744 - 4749	1.511 times
83 B(I) 4760 - 4765	1.528 times

The scale of these infrared ratios was more than adequate for compilation purposes.

37 - LANDMARKS AND AIDS

There are no landmarks or aids 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 Quadrangles: Sitka (D-1), Alaska, dated 1951, minor revisions 1979, scale 1:63,360; Juneau (A-1), Alaska, dated 1951, minor revision 1971, scale 1:63,360; Sitka (D-2), Alaska, dated 1951, minor revision 1979, scale 1:63,360; and Juneau (A-2), Alaska, dated 1951, minor revision 1971, scale 1:63,360.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Chart: 17300, 23rd edition, dated January 14, 1984, scale 1:209,978.

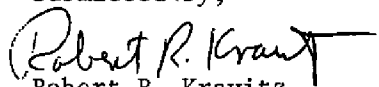
ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

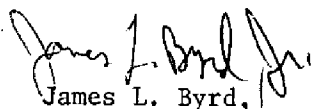
None.

Submitted by,

  
Robert R. Kravitz  
Cartographic Technician  
September 6, 1984

TP-01163

Approved,



James L. Byrd,

Chief, Coastal Mapping Unit, AMC

REVIEW REPORT TP-01163  
SHORELINE

61. GENERAL STATEMENT

See Summary included with this report.

The infrared photography was of sufficiently good quality that adequate photo points were found and the mean lower low water line was compiled graphically. The classification of some of the foreshore areas was changed in Final Review.

The hydro control panels which were field identified were not used in office compilation. The identification of these points on the 1:50,000 scale compilation photographs was not possible. However, they were readily identifiable on the 1:30,000 scale color photographs which were not supplied for compilation.

The point data set derived by the bridging section for the hydro signals is for the hydrographer's aid only and was not necessary for compilation of the maps.

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: Sitka (D-1) and (D-2), Alaska, dated 1951, minor revisions 1979; and Juneau (A-1) and (A-2), Alaska, minor revisions 1971. All four are 1:63,360 scale.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS

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

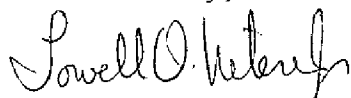
65. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with NOS Chart: 17300, 23rd edition, dated January 14, 1984, scale 1:209,978.

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  
November 2, 1984

TP-01163

Approved for forwarding,




Billy H. Barnes  
Chief, Photogrammetric Section, AMC

Approved,



Chief, Photogrammetric Section, Rockville



Ronald K. Brewer  
Chief, Photogrammetry Branch,  
Rockville



September 26, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8203 (Seymour Canal, Alaska)

TP-01163

Admiralty Island

Fool Inlet

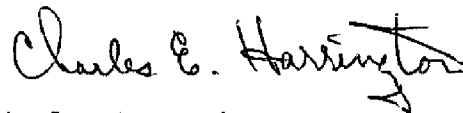
Glass Peninsula

King Salmon Bay

Seymour Canal

Swan Cove

Approved by:

A handwritten signature in cursive script that reads "Charles E. Harrington".

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

Replaces C&amp;GS Form 567.

U.S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
**NONFLOWING WINDS OR LANDMARKS FOR CHARTS**

[illegible]

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	OFFICE ACTIVITY REPRESENTATIVE  <input type="checkbox"/> REVIEWER <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	
OFFICE I. OFFICE IDENTIFIED AND LOCATED OBJECTS Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	FIELD (Cont'd) B. Photogrammetric field positions** require entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
FIELD I. NEW POSITION DETERMINED OR VERIFIED Enter the applicable data by symbols as follows: F - Field L - Located V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	II. TRIANGULATION STATION RECOVERED When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

NOAA FORM 76-40  
(9-74)

Replaces C&GS Form 567.

# NONFLOATING AIDS TO NAVIGATION FOR CHARTS

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

## ORIGINATING ACTIVITY

- ☐ HYDROGRAPHIC PARTY
- ☐ GEODETIC PARTY
- ☐ PHOTO FIELD PARTY
- ☒ COMPILATION ACTIVITY
- ☐ FINAL REVIEWER
- ☐ QUALITY CONTROL & REVIEW GRP.
- ☐ COAST PILOT BRANCH

(See reverse for responsible personnel)

REPORTING UNIT (Field Party, Ship or Office)		STATE	LOCALITY	DATE
Coastal Mapping Unit, AMC, Norfolk, VA		Alaska	Seymour Canal	Aug. 1984

The following objects HAVE ☐ HAVE NOT ☒ been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO. JOB NUMBER SURVEY NUMBER DATUM

CM-8203 TP-01163

N.A. 1927

METHOD AND DATE OF LOCATION  
(See instructions on reverse side)

OFFICE FIELD

CHARTS  
AFFECTED

CHARTING NAME DESCRIPTION  
(Record reason for deletion of landmark or aid to navigation.  
Show triangulation station names, where applicable, in parentheses)

LATITUDE LONGITUDE  
D.M. Meters D.P. Meters

NONE

RESPONSIBLE PERSONNEL	
TYPE OF ACTION	NAME
OBJECTS INSPECTED FROM SEAWARD	<div>ORIGINATOR</div> <input type="checkbox"/> PHOTO FIELD PARTY <input type="checkbox"/> HYDROGRAPHIC PARTY <input type="checkbox"/> GEODETIC PARTY <input type="checkbox"/> OTHER (Specify)
POSITIONS DETERMINED AND/OR VERIFIED	FIELD ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES	OFFICE ACTIVITY REPRESENTATIVE
<div> <input type="checkbox"/> REVIEWER  <input type="checkbox"/> QUALITY CONTROL AND REVIEW GROUP REPRESENTATIVE </div>	
INSTRUCTIONS FOR ENTRIES UNDER 'METHOD AND DATE OF LOCATION' (Consult Photogrammetric Instructions No. 64)	
<b>OFFICE</b> <b>I. OFFICE IDENTIFIED AND LOCATED OBJECTS</b> Enter the number and date (including month, day, and year) of the photograph used to identify and locate the object. EXAMPLE: 75E(C)6042 8-12-75	<b>FIELD (Cont'd)</b> <b>B. Photogrammetric field positions** require</b> entry of method of location or verification, date of field work and number of the photograph used to locate or identify the object. EXAMPLE: P-8-V 8-12-75 74L(C)2982
<b>FIELD</b> <b>I. NEW POSITION DETERMINED OR VERIFIED</b> Enter the applicable data by symbols as follows: F - Field L - Located V - Visually V - Verified 1 - Triangulation 2 - Traverse 3 - Intersection 4 - Resection 5 - Field identified 6 - Theodolite 7 - Planetable 8 - Sextant A. Field positions* require entry of method of location and date of field work. EXAMPLE: F-2-6-L 8-12-75 *FIELD POSITIONS are determined by field observations based entirely upon ground survey methods.	<b>II. TRIANGULATION STATION RECOVERED</b> When a landmark or aid which is also a triangulation station is recovered, enter 'Triang. Rec.' with date of recovery. EXAMPLE: Triang. Rec. 8-12-75 <b>III. POSITION VERIFIED VISUALLY ON PHOTOGRAPH</b> Enter 'V-Vis.' and date. EXAMPLE: V-Vis. 8-12-75 **PHOTOGRAMMETRIC FIELD POSITIONS are dependent entirely, or in part, upon control established by photogrammetric methods.

### 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]