TP-01166

TP-01166

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

Map No.	*Edition No.*
TP-01166	1

Job No.
CM-8203

Map Classification
CLASS III, FINAL

Type of Survey
SHORELINE

LOCALITY

State
ALASKA

General Locality
SEYMOUR CANAL

Locality
POINT HUGH

19 83 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. 01166

MAP EDITION NO. (1)

MAP CLASS III FINAL

JOB ~~xBtk~~ CM-8203

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

OFFICER-IN-CHARGE: A. Y. Bryson, CDR

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	
Aerotriangulation	February 15, 1984	Field	March 9, 1983
Compilation	September 06, 1984		

II. DATUMS

1. HORIZONTAL: [X] 1927 NORTH AMERICAN — OTHER (Specify)

2. VERTICAL: [X] MEAN HIGH-WATER [ ] MEAN LOW-WATER [X] MEAN LOWER LOW-WATER [ ] MEAN SEA LEVEL — OTHER (Specify)

3. MAP PROJECTION: Oblique Mercator

4. GRID(S): STATE Alaska, ZONE 1; STATE, ZONE

5. SCALE: 1:20,000

III. HISTORY OF OFFICE OPERATIONS

OPERATIONS		NAME	DATE
1. AEROTRIANGULATION METHOD: Analytic	BY	B. Thornton	May 1984
	LANDMARKS AND AIDS BY	D. Norman	May 1984
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp 718	PLOTTED BY	B. Thornton	May 1984
	CHECKED BY	D. Norman	May 1984
3. STEREOSCOPIC INSTRUMENT COMPILATION	PLANIMETRY BY	R. Kravitz	June 1984
	CHECKED BY	W. McLemore	June 1984
INSTRUMENT: Wild B-8	CONTOURS BY	N.A.	
SCALE: 1:20,000	CHECKED BY	N.A.	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	R. Kravitz	July 1984
	CHECKED BY	F. Mauldin	Aug. 1984
METHOD: Smooth drafted and graphic	CONTOURS BY	N.A.	
	CHECKED BY	N.A.	
SCALE: 1:20,000	HYDRO SUPPORT DATA BY	N.A.	
	CHECKED BY	N.A.	
5. OFFICE INSPECTION PRIOR TO ~~FIELD~~ FINAL REVIEW	BY	F. Mauldin	Aug. 1984
6. APPLICATION OF FIELD EDIT DATA	BY	N.A.	
	CHECKED BY	N.A.	
7. COMPILATION SECTION REVIEW CLASS III	BY	F. Mauldin	Aug. 1984
8. FINAL REVIEW CLASS III	BY	L. O. Neterer, Jr.	Sept. 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. KORNSAN	FEB 1985

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

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

NOAA FORM 76-36B
(3-72)

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

TP-00116

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

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

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

TIME REFERENCE
ZONE: Pacific [X] STANDARD [ ] DAYLIGHT
MERIDIAN: 120th

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

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
83 B(C) 4581 - 4585*	July15,1983	14:24	1:50,000	4.9 ft. above MLLW
83 B(C) 4597 - 4599*	July15,1983	15:04	1:50,000	7.5 ft. above MLLW
83 B(C) 4836 - 4837*	July16,1983	14:20	1:50,000	3.1 ft. above MLLW
83 B(I) 4712 - 4716**	July16,1983	11:56	1:30,000	1.0 ft. above MLLW
83 B(I) 4725 - 4730**	July16,1983	12:18	1:30,000	0.8 ft. above MLLW
83 B(I) 4779 - 4783**	July16,1983	12:40	1:30,000	0.7 ft. above MLLW
83 B(I) 4788 - 4792**	July16,1983	12:54	1:30,000	0.7 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
TP-01165	None	None	None

REMARKS

NOAA FORM 76-36C
(3-72)

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

TP-01166

HISTORY OF FIELD OPERATIONS

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

OPERATION		NAME	DATE
1. CHIEF OF FIELD PARTY		J. Wintermyre	May 1983
2. HORIZONTAL CONTROL	RECOVERED BY	M. Koehn	May 1983
	ESTABLISHED BY	M. Koehn	May 1983
	PRE-MARKED OR IDENTIFIED BY	M. Koehn	May 1983
3. VERTICAL CONTROL	RECOVERED BY	None	
	ESTABLISHED BY	None	
	PRE-MARKED OR IDENTIFIED BY	None	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED *(Triangulation Stations)* BY	None	
	LOCATED *(Field Methods)* BY	None	
	IDENTIFIED BY	None	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION [ ] COMPLETE [ ] SPECIFIC NAMES ONLY [X] NO INVESTIGATION — BY		
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: Premarked (Paneled)

2. VERTICAL CONTROL IDENTIFIED: None

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
83 B(C)4835	MOLE, 1983		

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)*

1 Form 76-53 CSI

☆ U.S. GPO: 1977-765-092/1105 Region 6

NOAA FORM 76-36D
(3-72)

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

TP-01166

RECORD OF SURVEY USE

I. MANUSCRIPT COPIES

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

II. LANDMARKS AND AIDS TO NAVIGATION

1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

PAGES ~~NUMBER~~	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
1			Aids to Navigation

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 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:

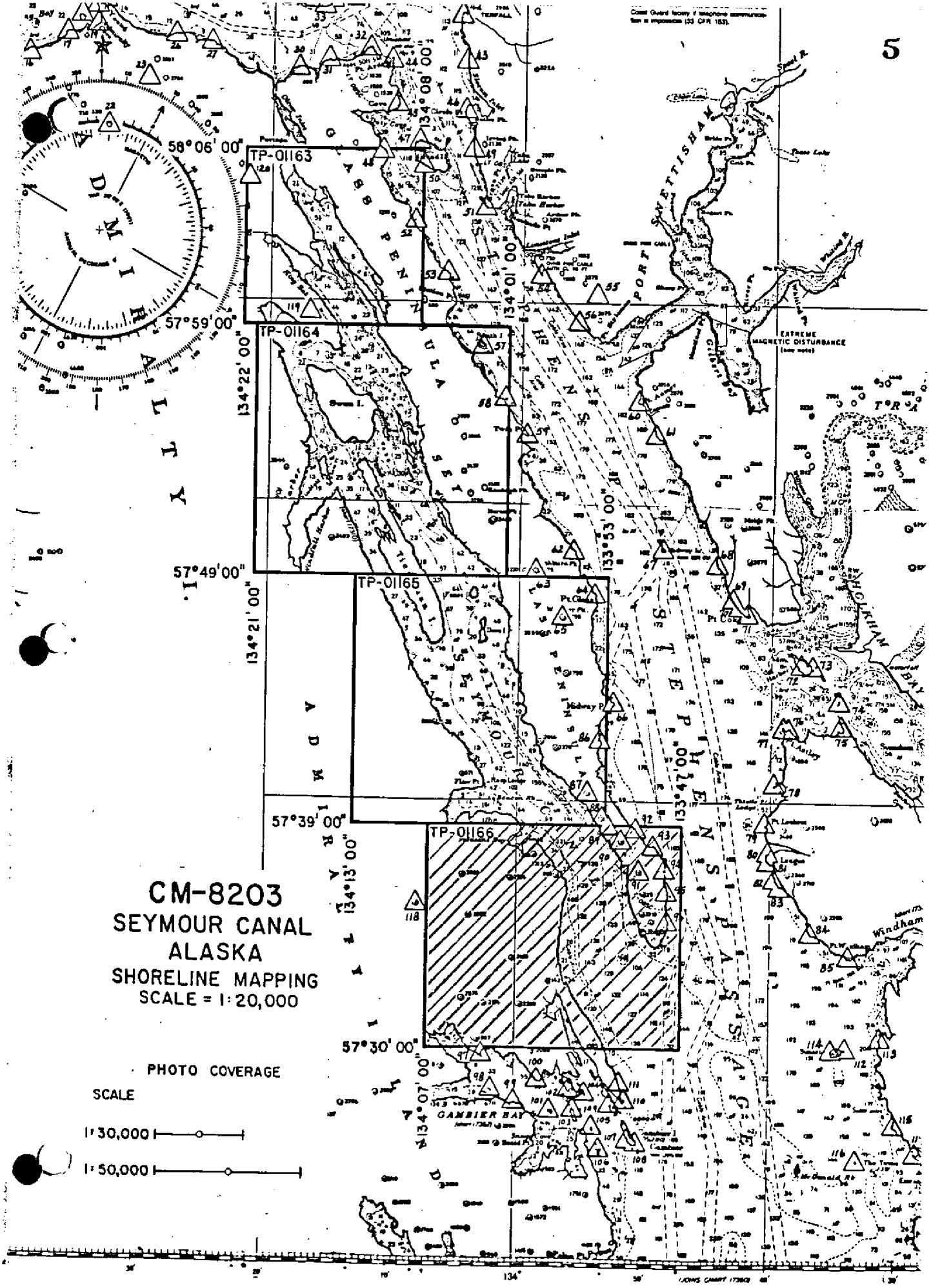
4. ☐ DATA TO FEDERAL RECORDS CENTER, DATE FORWARDED: _____

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

	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY / MAP CLASS
SECOND EDITION	TP - _____ (2)	PH - _____	☐ REVISED ☐ RESURVEY ☐ 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	

NOAA FORM 76-36D

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



CM-8203

SEYMOUR CANAL
ALASKA

SHORELINE MAPPING
SCALE = 1:20,000

PHOTO COVERAGE

SCALE

1:30,000

1:50,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT

TP-01166

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°30'30" north to its headspring, Latitude 58°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 August 1984 from office interpretation of the 1983 photography.

Final review was executed at the Atlantic Marine Center in September 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

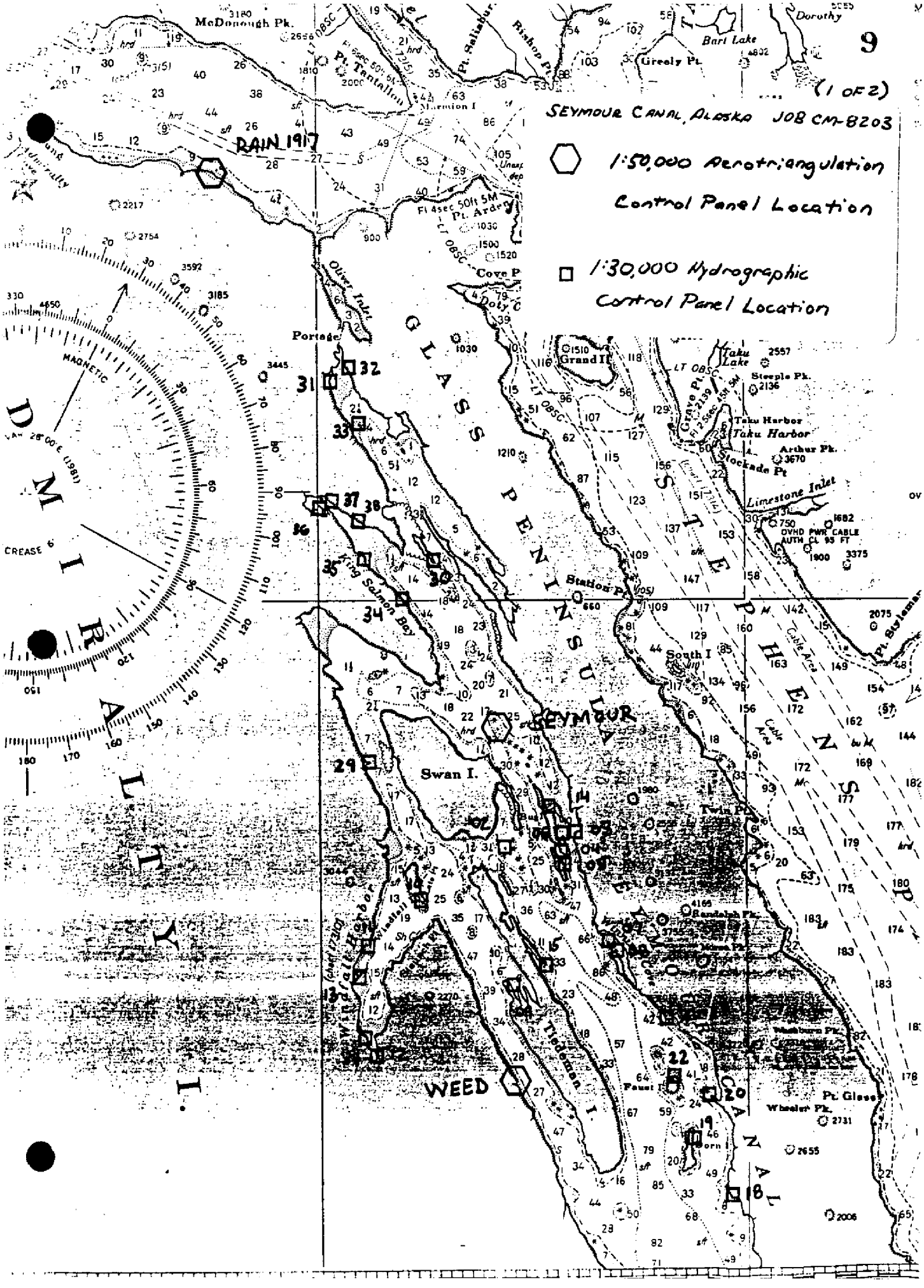
and the location was deemed advantageous as a control point for hydrography. Array #2 panel and spacing dimensions were followed as closely as possible, but in several cases, a 3-ray version was required. A copy of the large scale chart of the area is included with this report showing the locations of 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).

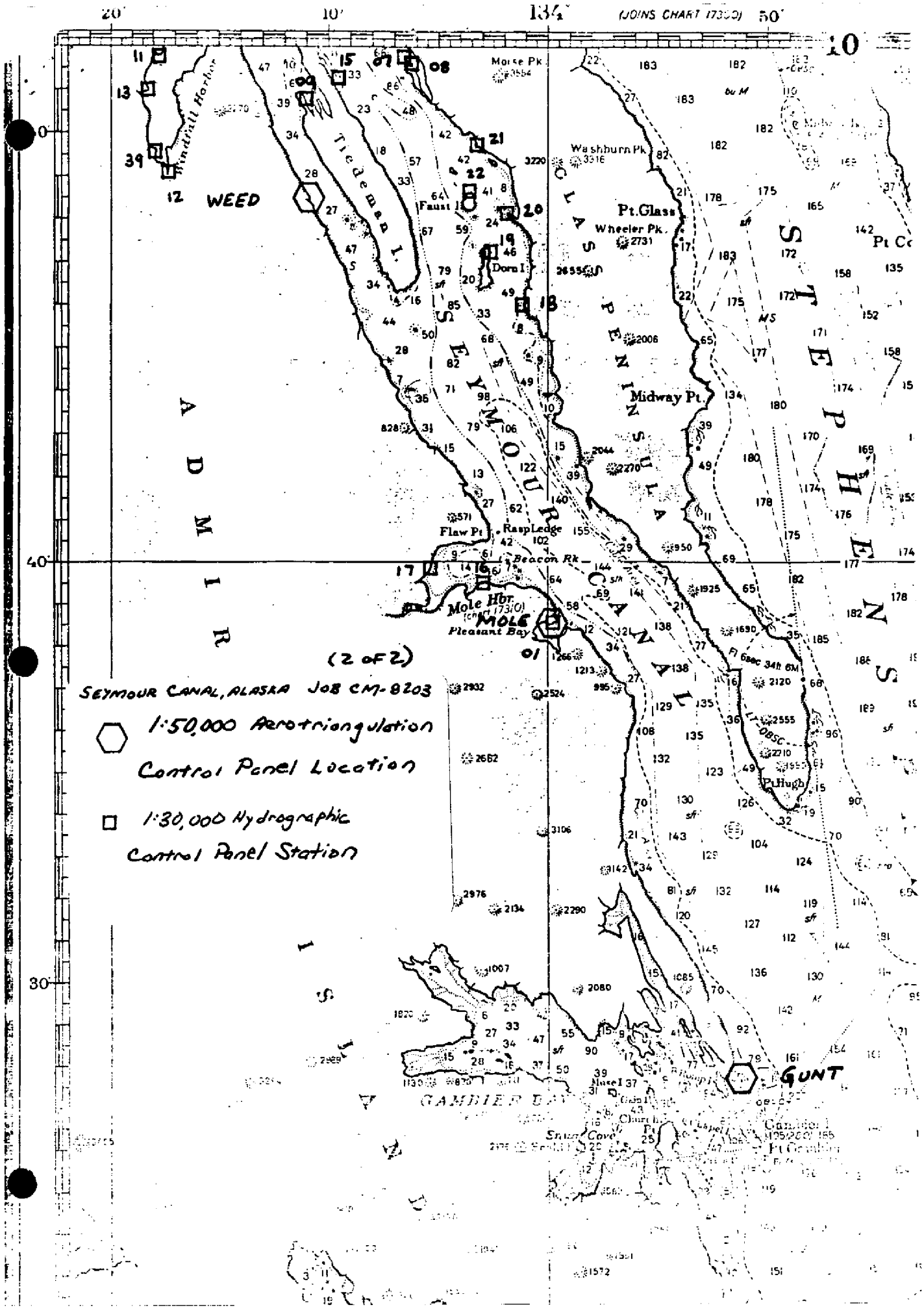
Respectfully submitted,

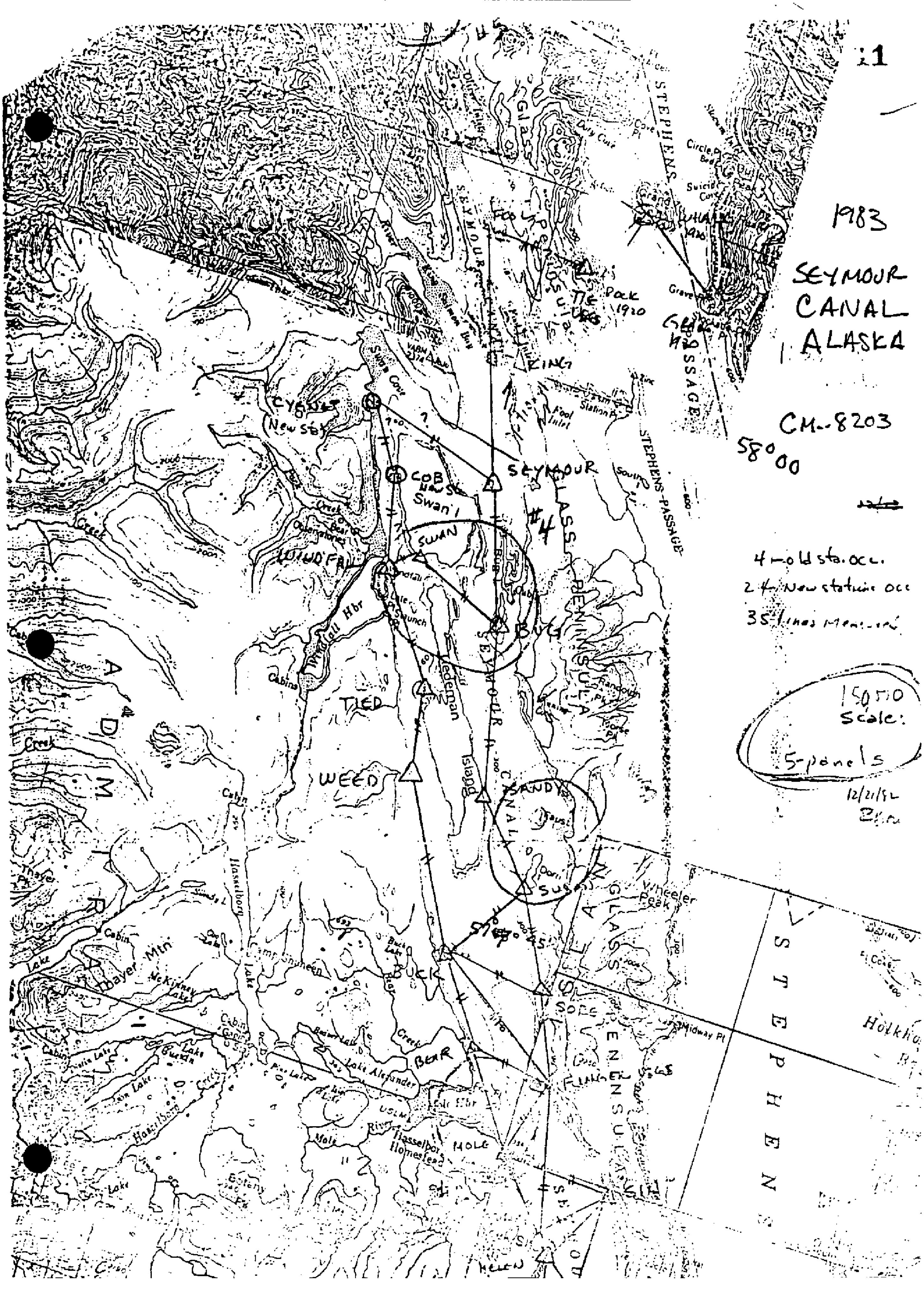
Mark P. Koehn, LT, NOAA
Horizontal Control Officer

Approved and forwarded,

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


9
(1 OF 2)
SEYMOUR CANAL, ALASKA JOB CM-8203
1:50,000 Aerotriangulation Control Panel Location
1:30,000 Hydrographic Control Panel Location
RAIN 1917
GLASS PENINSULA
SEYMOUR
WEED
Swan I.
South I
Portage
Station Pt
Limestone Inlet
Taku Harbor
Taku Lake
Steeple Pk.
Arthur Pk.
Stockade Pt
Grave Pt.
Grand I.
Greely Pt.
Bart Lake
Dorothy
McDonough Pk.
Pt. Tantalus
Pt. Saladar
Bishop Pt.
Hermion I
Pt. Ardery
Oliver Inlet
Doty C
Cove P
King Salmon Bay
Windfall Harbor
Tiedeman I
Twin Pt
Randolph Pk.
Whitburn Pk.
Pt. Glass
Wheeler Pk.
Fauet I
Horn
MAGNETIC
VAR 28° 00' E (1981)
DECREASE 6'
DIMIRALI
CANAL
OVHD PWR CABLE AUTH CL 95 FT
Cable Area


(2 OF 2)
SEYMOUR CANAL, ALASKA JOB CM-8203
1:50,000 Aerotriangulation Control Panel Location
1:30,000 Hydrographic Control Panel Station
WEED
MOLE
GUNT
ADMIRALTY I.
TEBENKOF BAY
Tiedeman I.
Randall Harbor
Faust I.
Dora I.
Midway Pt.
Pt. Glass
Wheeler Pk.
Washburn Pk.
Morse Pk.
Flaw Pt.
Rasp Ledge
Beacon Rk.
Mole Hbr.
Pleasant Bay
Pt. Hugh
Gambier Bay
Snug Cove
Ft. Gambier
SEYMOUR CANAL
(JOINS CHART 17300)



1983
SEYMOUR CANAL ALASKA
CM-8203
58°00
4-old sta. occ.
24-New station occ
35-lines Measured
Scale: 1:50510
5-panels
SEYMOUR CANAL
STEPHENS PASSAGE
GLASS PENINSULA
SEYMOUR
CYGNET
COB
SWAN
WINDFALL
BIG
TIED
WEED
SANDY
SUSAN
BUCK
BEAR
FINGER
SORE
MOLE
HELEN
KING
TIE ROCK 1920
Windfall Hbr
Swan Cove
Swan I
Pleasant Bay
Faust I
Dorn I
Wheeler Peak
Thayer Mtn
McKinney Lake
Lake Alexander
Hasselborg Lake
Hasselborg Homestead
Mole River
Camp Shaheen
Botany
Cabin
Randolph Pt
Gore Pt
Midway Pt
Pool Inlet
Station Pt
Circle Pt
Suicide Cove
Grand Pt
Graves
Stockade Pt
ADMIRALTY
STEPHENS

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

STRIP #	STATION NAME	POINT NO.	X	Y
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

STRIP #	STATION NAME	POINT NO.	X	Y
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

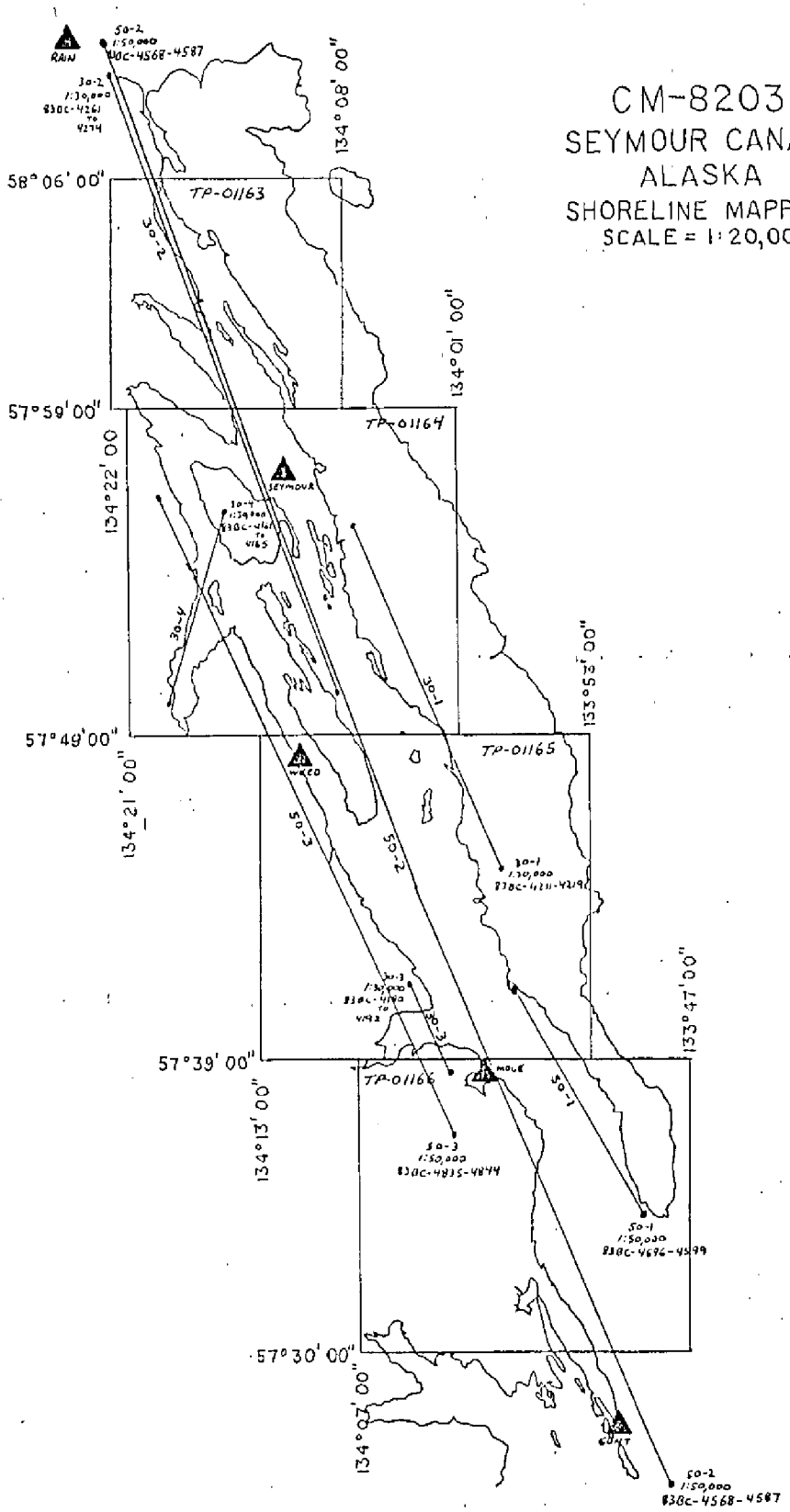
RATIO VALUES FOR SEYMOUR CANAL, ALASKA

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
58° 06' 00"
57° 59' 00"
57° 49' 00"
57° 39' 00"
57° 30' 00"
134° 08' 00"
134° 01' 00"
133° 53' 00"
133° 47' 00"
134° 22' 00"
134° 21' 00"
134° 13' 00"
134° 07' 00"
TP-01163
TP-01164
TP-01165
TP-01166
RAIN
SEYMOUR
WRCO
MOUE
GOXT
50-2
1:50,000
830C-4568-4587
50-1
1:50,000
830C-4696-4699
50-3
1:50,000
830C-4835-4844

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-01166	CM-8203	N.A. 1927	Coastal Mapping Unit, Atlantic Marine Center, 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
MOLE, 1983	List of GP Station Names	581100	x=	φ 57°38'26.576"	
			y=	λ 133°58'30.217"	Field position
SIN, 1983	Field photo Control Data Book	14	x=	φ 57°38'47.375"	
			y=	λ 133°53'29.415"	Field position
TURNER, 1983	"	15	x=	φ 57°37'08.307"	
			y=	λ 133°56'26.096"	Field position
HELEN 2, 1983	"	16	x=	φ 57°36'52.812"	
			y=	λ 133°56'07.464"	Field position
FLAT, 1983	"	17	x=	φ 57°34'37.268"	
			y=	λ 133°50'08.622"	Field position
HUGH, 1920 NHH	"	18	x=	φ 57°35'04.730"	
			y=	λ 133°47'58.970"	Field position
DON, 1983	"	19	x=	φ 57°31'06.657"	
			y=	λ 133°53'57.684"	Field position
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	
			x=	φ	
			y=	λ	

COMPUTED BY	DATE	COMPUTATION CHECKED BY	DATE
LISTED BY R. Kravitz	DATE 5/31/84	LISTING CHECKED BY F. Mauldin	DATE 8/15/84
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY	DATE

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

7.8

COMPILATION REPORT
TP-01166

31 - DELINEATION

Delineation was accomplished using the Wild B-8 stereoplotting instrument and graphic compilation methods. Instrument compilation was used to delineate the shorleine, 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 by 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 dense rock and where the ledge was apparent.

36 - OFFSHORE DETAILS

Offshore details 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:

83 B(I) 4712 - 4716	1.521 times
83 B(I) 4725 - 4732	1.511 times
83 B(I) 4779 - 4783	1.528 times
83 B(I) 4788 - 4792	1.526 times

37 - LANDMARKS AND AIDS

Appropriate copies of 76-40 forms are submitted with this report.

38 - CONTROL FOR FUTURE SURVEYS

None.

39 - JUNCTIONS

Refer to the Data Record Form 76-36B, Item 5 of the Descriptive Report.

40 - HORIZONTAL CONTROL

See item #32.

46 - COMPARISON WITH EXISTING MAPS

A comparison was made with the following U.S. Geological Survey Quadrangles: Sitka (C-1), Alaska, dated 1951, revised 1967, scale 1:63,360; and Sumdum (C-6), Alaska, dated 1951, revised 1972, scale 1:63,360.

47 - COMPARISON WITH NAUTICAL CHARTS

A comparison was made with the following NOS Charts: 17362, 8th edition, dated April 22, 1978, scale 1:40,000; and 17360, 25th edition, dated January 29, 1983, scale 1:217,828.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None.

ITEMS TO BE CARRIED FORWARD

None.

TP-01166

Submitted by,

Robert R. Kravitz
Cartographic Technician
July 1984

Approved,

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

REVIEW REPORT TP-01166
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 (C-1), Alaska, dated 1951, minor revisions 1967; and Sumdum (C-6), Alaska, dated 1951, minor revisions 1972. 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 NOS Charts: 17362, 8th edition, dated April 22, 1978, scale 1:40,000; 17360, 25th edition, dated January 29, 1983, scale 1:217,828; and 17320, 11th edition, dated October 1, 1983, scale 1:217,828.

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.
Final Reviewer
September 28, 1984

TP-01166

Approved for forwarding

Billy H. Barnes
Chief, Photogrammetric Section, AMC

Approved,

Chief, Photogrammetric Section, Rockville

Chief, Photogrammetry Branch, Rockville

September 26, 1984

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8203 (Seymour Canal, Alaska)

TP-01166

Admiralty Island

Glass Peninsula

Hasselborg Homestead

Mole Harbor

Mole River

Pleasant Bay

Seymour Canal

Stephens Passage

Approved by:

Charles E. Harrington

Charles E. Harrington
Chief Geographer
Nautical Charting Division

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

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)

☒ TO BE CHARTED
☐ TO BE REVISED
☐ TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Unit, AMC, Norfolk, VA

STATE: Alaska

LOCALITY: Seymour Canal

DATE: June 1984

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

OPR PROJECT NO.:

JOB NUMBER: CM-8203

SURVEY NUMBER: TP-01166

DATUM: N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	FIELD	CHARTS AFFECTED
	NONE							

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ 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

I. NEW POSITION DETERMINED OR VERIFIED
Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	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.

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

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.

SUPERSEDES NOAA FORM 76-40 (2-71) WHICH IS OBSOLETE, AND EXISTING STOCK SHOULD BE DESTROYED UPON RECEIPT OF REVISION.

☆ U.S.GPO:1975-0-665-080/1155

NOAA FORM 76-40
(8-74)

Replaces C&GS Form 567.

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

NONFLOATING AIDS ~~OR LANDMARKS~~ FOR CHARTS

ORIGINATING ACTIVITY
- [ ] HYDROGRAPHIC PARTY
- [ ] GEODETIC PARTY
- [ ] PHOTO FIELD PARTY
- [x] COMPILATION ACTIVITY
- [ ] FINAL REVIEWER
- [ ] QUALITY CONTROL & REVIEW GRP.
- [ ] COAST PILOT BRANCH

(See reverse for responsible personnel)

- [x] TO BE CHARTED
- [ ] TO BE REVISED
- [ ] TO BE DELETED

REPORTING UNIT (Field Party, Ship or Office): Coastal Mapping Unit, AMC, Norfolk, VA

STATE: Alaska

LOCALITY: Seymour Canal

DATE: June 1984

The following objects HAVE [ ] HAVE NOT [x] been inspected from seaward to determine their value as landmarks.

OPR PROJECT NO.	JOB NUMBER	SURVEY NUMBER	DATUM
	CM-8203	TP-01166	N.A. 1927

CHARTING NAME	DESCRIPTION (Record reason for deletion of landmark or aid to navigation. Show triangulation station names, where applicable, in parentheses)	POSITION LATITUDE ° ′	POSITION LATITUDE ″ D.M. Meters	POSITION LONGITUDE ° ′	POSITION LONGITUDE ″ D.P. Meters	METHOD AND DATE OF LOCATION (See instructions on reverse side) OFFICE	METHOD AND DATE OF LOCATION FIELD	CHARTS AFFECTED
LIGHT	Point Hugh Light					Not Identifiable		17360

RESPONSIBLE PERSONNEL		
TYPE OF ACTION	**NAME**	**ORIGINATOR**
OBJECTS INSPECTED FROM SEAWARD		☐ PHOTO FIELD PARTY ☐ HYDROGRAPHIC PARTY ☐ GEODETIC PARTY ☐ OTHER *(Specify)*
POSITIONS DETERMINED AND/OR VERIFIED		FIELD ACTIVITY REPRESENTATIVE
		OFFICE ACTIVITY REPRESENTATIVE
FORMS ORIGINATED BY QUALITY CONTROL AND REVIEW GROUP AND FINAL REVIEW ACTIVITIES		☐ REVIEWER ☐ 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

I. NEW POSITION DETERMINED OR VERIFIED

Enter the applicable data by symbols as follows:

F - Field	P - Photogrammetric
L - Located	Vis - Visually
V - Verified	
1 - Triangulation	5 - Field identified
2 - Traverse	6 - Theodolite
3 - Intersection	7 - Planetable
4 - Resection	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.

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

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.

☆ U.S.GPO:1975-0-665-080/1155

FORM C&GS-8352
(5-25-63)

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
			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
			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
			Drawing No.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63