

TP- 01160

TP- 01160

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

This map edition will not be Field Edited

Type of Survey ... Shoreline .....

Job No. CM-8201 ..... Map No. TP-01160 ....

Classification No. III ..... Edition No. ....1.....

### LOCALITY

State ... Alaska .....

General Locality ... Port. Whaley .....

Locality ... Behn Narrows to Behn Canal .....

1982 TO 19

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY TP. <u>01160</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. <u>(1)</u>	
				<input type="checkbox"/> RESURVEY		MAP CLASS <u>III</u>	
				<input type="checkbox"/> REVISED		JOB <u>XX, CM-8201</u>	
PHOTOGRAMMETRIC OFFICE				LAST PRECEDING MAP EDITION			
Coastal Mapping, Rockville, Md.				TYPE OF SURVEY		JOB PH. _____	
OFFICER-IN-CHARGE				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
Lawrence W. Fritz				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		19__ TO 19__	
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation November 19, 1982				Field February 5, 1982			
Office March 30, 1983				Change No. 1 May 21, 1982			
II. DATUMS							
1. HORIZONTAL: <input checked="" type="checkbox"/> 1927 NORTH AMERICAN				OTHER (Specify)			
2. VERTICAL: <input checked="" type="checkbox"/> MEAN HIGH-WATER <input type="checkbox"/> MEAN LOW-WATER <input checked="" type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL				OTHER (Specify)			
3. MAP PROJECTION				4. GRID(S)			
Oblique Mercator				STATE Alaska		ZONE 1	
5. SCALE 1:20,000				STATE		ZONE	
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY				B. Thornton		Dec. 1982	
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				None			
2. CONTROL AND BRIDGE POINTS PLOTTED BY				B. Thornton		Jan. 1983	
METHOD: <u>Coradmat</u> CHECKED BY				D. Norman		Jan. 1983	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY				J. Schad		Mar. 1983	
COMPILATION CHECKED BY				P. Dempsey		Mar. 1983	
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY				N/A			
SCALE: <u>1:20,000</u> CHECKED BY				N/A			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. Schad		Mar. 1983	
CHECKED BY				P. Dempsey		Mar. 1983	
METHOD: <u>Smooth drafted</u> CONTOURS BY				N/A			
CHECKED BY				N/A			
HYDRO SUPPORT DATA BY				N/A			
SCALE: <u>1:20,000</u> CHECKED BY				N/A			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				None			
6. APPLICATION OF FIELD EDIT DATA BY				None			
CHECKED BY							
7. COMPILATION SECTION REVIEW BY				P. Dempsey		Mar. 1983	
8. FINAL REVIEW BY				J. Schad		June 1983	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY				P. Dempsey		June 1983	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY				J. Schad		May 1985	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				E. DAUGHERTY		JUN 85	

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY

## COMPILATION SOURCES

TP-01160

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-10 (B) f1 153.14		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE <input checked="" type="checkbox"/> PREDICTED TIDES (Infrared) <input checked="" type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY		(C) COLOR (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input type="checkbox"/> STANDARD
				MERIDIAN 105th	<input checked="" type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
82B(C) 5523, 25, 27, 29	6/17/82	9:40	1:50,000	MLLW 11.9	
82B(C) 5702, 04	6/17/82		1:50,000	MLLW 4.9	
82B(R) 6030, 32	6/22/82	1009	1:50,000	MLLW -0.4	
82B(R) 6044, 46, 48, 50	6/22/82	1023	1:50,000	MLLW 0.8	
82B(R) 6084, 86	6/22/82	1042	1:50,000	MLLW 2.0	
82B(R) 6093	6/22/82	1048	1:50,000	MLLW 2.8	

REMARKS Determination of tide elevation taken from Ketchikan gage and applied to reference station Convenient Cove for predicted tide.

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

The source of the mean high water line is from the photographs listed on Form 76-36B(1) and photos 82B(C) 5523, 25, 27, and 29 listed in Item 1 above.

## 3. SOURCE OF MEAN LOW-WATER OR MEAN LOWER LOW-WATER LINE:

The source of the mean lower low-water line is from the black-and-white infrared photographs listed in Item 1 above.

## 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	No	EAST	No	SOUTH	No	WEST
Contemporary Surveys		TP-01159		Contemporary Surveys		

REMARKS

## PHOTOGRAPHY

TP - 01160

LOCATION AND PHOTOGRAPHY	TIDE STATIONS (In operation at time of photography)	STAGE OF TIDE	MEAN RANGE
82B(C) 5764 - 69	Covenant Cove	MLLW 3.0	6/17/82
82B(C) 5777 - 79	" "	MLLW 2.7	6/17/82
82B(C) 5832 - 43	" "	MLLW 2.3	6/17/82
82B(C) 5871 - 74	" "	MLLW 2.3	6/17/82
82B(R) 5596-5603		HW	6/17/82
82B(R) 5633-36		HW	6/17/82
82B(R) 5644-46		HW	6/17/82
82B(R) 5907-09		HW	6/18/82
82B(R) 5930-32		HW	6/18/82
82B(R) 5939-42		HW	6/18/82

REMARKS:

## HISTORY OF FIELD OPERATIONS.

TP-01160

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION.

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY		
2. HORIZONTAL CONTROL	RECOVERED BY R. B. Melby ESTABLISHED BY " PRE-MARKED OR IDENTIFIED BY N/A	6/10/82 "
3. VERTICAL CONTROL	RECOVERED BY N/A ESTABLISHED BY N/A PRE-MARKED OR IDENTIFIED BY N/A	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N/A LOCATED (Field Methods) BY N/A IDENTIFIED BY N/A	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY N/A	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY N/A	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED Premarking		2. VERTICAL CONTROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
82B(C) 5563	OPE 1930		
82B(C) 5527	Anchor 1930		
82B(C) 5521	Janez, 1929 (outside of map)		

3. PHOTO NUMBERS (Clarification of details)  
N/A

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED  
N/A

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE

6. 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)  
3 - Control Station Identification Cards

## RECORD OF SURVEY USE

TP-01160

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline, alongshore and offshore	March 1982	Class III	May 1985	Oct. 1983

## II. LANDMARKS AND AIDS TO NAVIGATION

## 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			No landmarks and aids to navigation on this manuscript

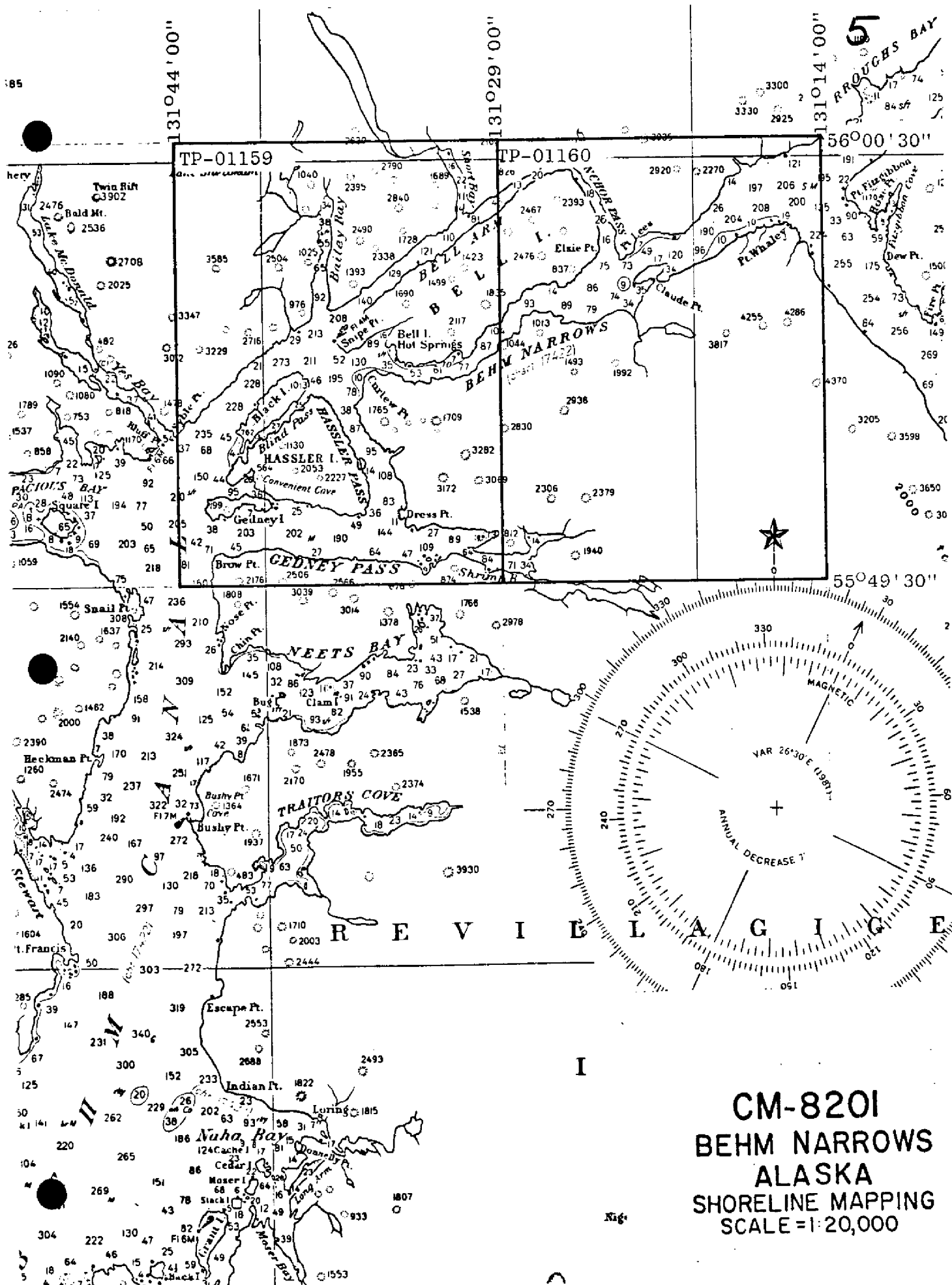
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## 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)

SECOND EDITION	SURVEY NUMBER TP - _____ (2)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
THIRD EDITION	SURVEY NUMBER TP - _____ (3)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	
FOURTH EDITION	SURVEY NUMBER TP - _____ (4)	JOB NUMBER PH - _____	TYPE OF SURVEY <input type="checkbox"/> REVISED <input type="checkbox"/> RESURVEY MAP CLASS <input type="checkbox"/> II. <input type="checkbox"/> III. <input type="checkbox"/> IV. <input type="checkbox"/> V. <input type="checkbox"/> FINAL
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	



## SUMMARY TO ACCOMPANY

## DESCRIPTIVE REPORT

TP-01160

This 1:20,000 scale Class III shoreline manuscript is one of two maps designated as project CM-8201, Behm Narrows, Alaska.

This final Class III map portray the shoreline located in southeast Alaska on Behm Canal and its adjacent waterways.

Field work prior to compilation consisted of the recovery and identification of horizontal control and for the placing of targets on selected control for Aerotriangulation and subsequent use as hydrographic control stations.

Photo coverage was adequately provided with the wild RC-10(B) camera. Photographs were taken June 1982 at 1:30,000 and 1:50,000 scales, natural color and 1:50,000 scale black-and-white infrared tide predicted photographs. 1:50,000 scale black-and-white infrared photo were ratioed to the 1:20,000 scale manuscript.

Although the control for this job was marginal, analytic aerotriangulation was adequately provided, at the Washington Science Center, Rockville, December 1982. Aerotriangulation operations included ruling the base manuscripts, determining ratio values for photographs.

Compilation based on photo interpretation of the natural color photographs was performed by the Coastal Mapping Unit at Rockville, March 1983. Compilation included the use of MHW and MLLW infrared photographs ratioed to the manuscript.

Field edit will not be performed in this project.

Final review was performed at the Washington Science Center, June 1983. A chart maintenance print was prepared and forwarded to the Marine Chart Branch.

This Descriptive Report contains all pertinent information used to compile this Class III map. CM-8201 was registered May 1985.





7  
**U.S. DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL OCEAN SURVEY  
Pacific Marine Center  
1801 Fairview Avenue East  
Seattle, Washington 98102

July 20, 1982

TO: C-3415 - National Ocean Survey

FROM: CPM133 - Pacific Photo Party

SUBJECT: Field Operations Report  
Project CM-8201, Behm Narrows, Alaska

This shoreline mapping project was undertaken by the Pacific Marine Center Photo Party in the month of June 1982.

The purpose of the project was to place panels on selected horizontal stations, prior to the scheduled aerial photography. This was accomplished in the scheduled time frame, and the pertinent field information for each paneled station appears on the form 76-53, Control Station Identification.

The existing horizontal control was adequate, and it was not necessary to establish any supplemental control.

When station JANE 2, 1929, horizontal control data quadrangle 561312-1025, was occupied, the angle between the reference marks 1 and 2 was measured at 111 degrees, but the original description indicated it is only 11 degrees. A 100 degree difference. A telephone conversation with NGS headquarters revealed a "typo" error in the original description, and the direction to R.M. No. 2 should read 343-36-20.0 instead of 243-36-200.

No secondary, photo-located, hydro-support, horizontal control points were paneled in this project.

Respectfully Submitted,

R. B. Melby  
Chief, PMC Photo Party





U.S. DEPARTMENT OF COMMERCE **7A**  
National Oceanic and Atmospheric Administration  
NATIONAL OCEAN SURVEY  
Pacific Marine Center  
1801 Fairview Avenue East  
Seattle, Washington 98102

July 21, 1982

TO: C-174 - National Geodetic Survey

FROM: CPM133 - Pacific Photo Party

SUBJECT: Field Report, Walker Cove, Alaska - Project CM-8202; Behm Narrows, Alaska - Project CM-8201; TSN Nos. 275 thru 312

Authority: Project Instructions Field - Job CM-8201, Behm Narrows, Alaska, Shoreline Mapping; Job CM-8202, Walker Cove, Alaska, Shoreline Mapping, dated February 5, 1982.

As both projects were combined under a single set of instructions, the field work was processed through the telephone as a single job.

Terrain: The area is in southeast Alaska; Walker Cove is a small narrow fiord-like bay with steep wooded, rocky shores and Behm Narrows is also wooded, rocky shores and islands.

General: The project's purpose was to panel horizontal control stations, prior to scheduled aerial photography, for shoreline mapping purposes. No horizontal control was established in the Behm Narrows area. Two Third-order traverse stations were established at the head of Walker Cove. The traverse stations were established to Third-order Class I specifications from the existing Third-order Class I triangulation of 1931.

Personnel: The field work was performed by one member from the Pacific Marine Center, and one employee from the NGS Mark Maintenance Program on temporary duty to the Pacific Photo Party.

Transportation: This was by chartered boat and small skiff.

Equipment: 1 - Wild T-2 Theodolite  
1 - Hewlett-Packard Model 3808A EDM Instrument  
1 - 0.5 Meter, Mirror Bar  
1 - K&E Retrodirective Prisms  
Assorted Tripods, Signal Poles and Tapes

Field Methods: Third-order traverse methods were employed by the field party, using 3 mirror-bar positions with the HP 3808A EDM. The starting elevation for the EDM line reductions was based on station MOST 1931 at 3.2 meters. This value was derived by referring to the original description of MOST; Quad 551304-1048, which described the station as being 4 feet above mean high water. Nearby Rudyard Bay has tidal values of 14.8 feet for mean high water and 8.15 feet for half tide. Allowing half tide to nearly equal mean sea level and adding



6.6 feet and 4 feet gives a value of 10.6 feet or 3.2 meters. This elevation should be used to reduce EDM lines and it is not a highly accurate determination, but it is probably more accurate than the 2 meter scale elevation as published in the horizontal control data.

Computations: The field computations were performed with 2 Hewlett-Packard hand held calculators then re-computed with a Hewlett-Packard 9815B desk calculator.

Records: All the field data was entered and processed through the NGS telephone data terminal.

Respectfully Submitted,

*R.B. Melby*

R. B. Melby  
Chief, Pacific Photo Party

CM-8201  
PHOTOGRAMMETRIC PLOT REPORT  
BEHM NARROWS, ALASKA

December 1982

21. AREA COVERED

The area covered by this project is the shoreline of Behm Narrows, Alaska. The project area is covered by two 1:20,000 scale sheets, TP-01159 and TP-01160.

22. METHOD

Four strips of 1:50,000 scale color photographs were bridged by analytical aerotriangulation methods. Control was premarked. Tie points were used to ensure a good fit between flight lines and also to be used as control in areas where field control was sparse. Ratio points were determined on the 1:50,000 scale black-and-white MHW and MLLW infrared photographs. Ratio points were also determined on the 1:30,000 scale color photographs. The bridging photographs were adjusted using the Alaska, zone one coordinate system. The same coordinate system was used to plot the manuscript projections.

23. ADEQUACY OF CONTROL

The control for this job was marginal. At the south end of the project area where the two sheets join, the photographs needed for compilation extend almost two models beyond the last control point. Due to this condition, the accuracy of positions of points beyond control cannot be predicted. We also noted excessive film distortion in the film positives based on our fiducial readings. This problem has appeared in past projects. A copy of the fit to control is attached to this report.

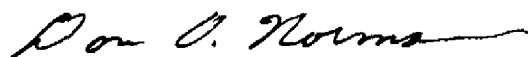
24. SUPPLEMENTAL DATA

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

25. PHOTOGRAPHY

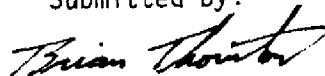
The coverage, overlap, and quality of the 1982 B(C) photographs were adequate for the job.

Approved and Forwarded:



Don O. Norman  
Chief, Aerotriangulation Unit

Submitted by:



Brian Thornton  
Cartographer

CM-8201  
BEHM NARROWS, ALASKA  
FIT TO CONTROL  
(In Feet)

▲ = Stations held in adjustment

<u>STRIP 1</u>	<u>POINT NO.</u>	<u>X</u>	<u>Y</u>
▲ 64 Yes, 1930 sub.pt.	553101	-0.590	0.081
▲ 74 Pass, 1930 sub.pt.	535101	-0.533	0.503
▲ 114 Vow 2, 1929 sub.pt.	533101	2.097	1.110
▲ 129 Anchor, 1930	527100	1.845	-1.789
▲ 148 Ope, 1930 sub.pt.	563101	-2.861	
<u>STRIP 2</u>			
● ▲ 42 Shrimp, 1930	728100	2.643	-2.891
▲ Tie from Strip 3	529803	-1.746	-0.913
▲ Tie from Strip 3	529806	-1.843	5.265
Tie from Strip 3	529804	2.348	1.577
▲ Tie from Strip 3	529805	-0.525	1.683
Tie from Strip 3	529801	0.717	-5.753
▲ Tie from Strip 3	529802	1.454	-3.150
64 Yes, 1930 sub.pt.	553101	-2.471	-0.613
<u>STRIP 3</u>			
▲ 147 Jane 2, 1929 sub.pt.	521101	-0.020	-0.836
▲ 129 Anchor, 1930	527100	0.716	1.784
▲ 148 Ope, 1930 sub.pt.	563101	-1.222	0.361
● ▲ 114 Vow 2, 1929 sub.pt.	533101	0.288	-1.880
74 Pass, 1930 sub.pt.	535101	-1.113	-2.154
▲ 64 Yes, 1930 sub.pt.	553101	0.231	0.567

▲ = Stations held in adjustment

<u>STRIP 4</u>	<u>POINT NO.</u>	<u>X</u>	<u>Y</u>
Tie from Strip 3	528801	-3.826	-2.239
Tie from Strip 3	528802	-0.244	-1.363
▲ Tie from Strip 3	528803	-2.831	2.487
Tie from Strip 3	528804	-3.931	1.327
▲ 74 Pass, 1930 sub.pt.	535101	-3.288	-2.279
Tie from Strip 3	527810	-8.456	6.554
Tie from Strip 3	528810	-1.021	6.343
114 Vow 2, 1929 sub.pt.	533101	-0.509	3.920
▲ Tie from Strip 2	704801	5.573	0.306
▲ Tie from Strip 2	704802	3.734	-1.986
▲ 42 Shrimp, 1930	728100	-3.190	1.467
Tie from Strip 2	702801	-4.359	-6.514
Tie from Strip 2	702802	-5.730	-6.938
Tie from Strip 2	704803	-2.910	-2.184
Tie from Strip 2	704804	-1.197	-3.904
Tie from Strip 2	704805	-8.380	2.973
Tie from Strip 2	704806	-12.193	5.056

## Ratio values for the 1982 B(R) MHW photographs

82-B(R)-5596 to 5611      Ratio 2.527

5624 to 5637      x    2.522

5644 to 5646      x    2.546

5907 to 5915      x    2.564

5925 to 5936      x    2.571

5939 to 5943      x    2.560

## Ratio values for the 1982 B(R) MLLW photographs

82-B(R)-6022 to 6032      Ratio 2.529

6043 to 6060      x    2.531

6076 to 6087      x    2.529

6093 to 6103      x    2.529

6109 to 6114      x    2.527

## Ratio values for the 1982 B(C) photographs

82-B(C)-5496 to 5504      Ratio 1.492

5753 to 5769      x    1.516

5777 to 5779      x    1.517

5821 to 5843      x    1.515

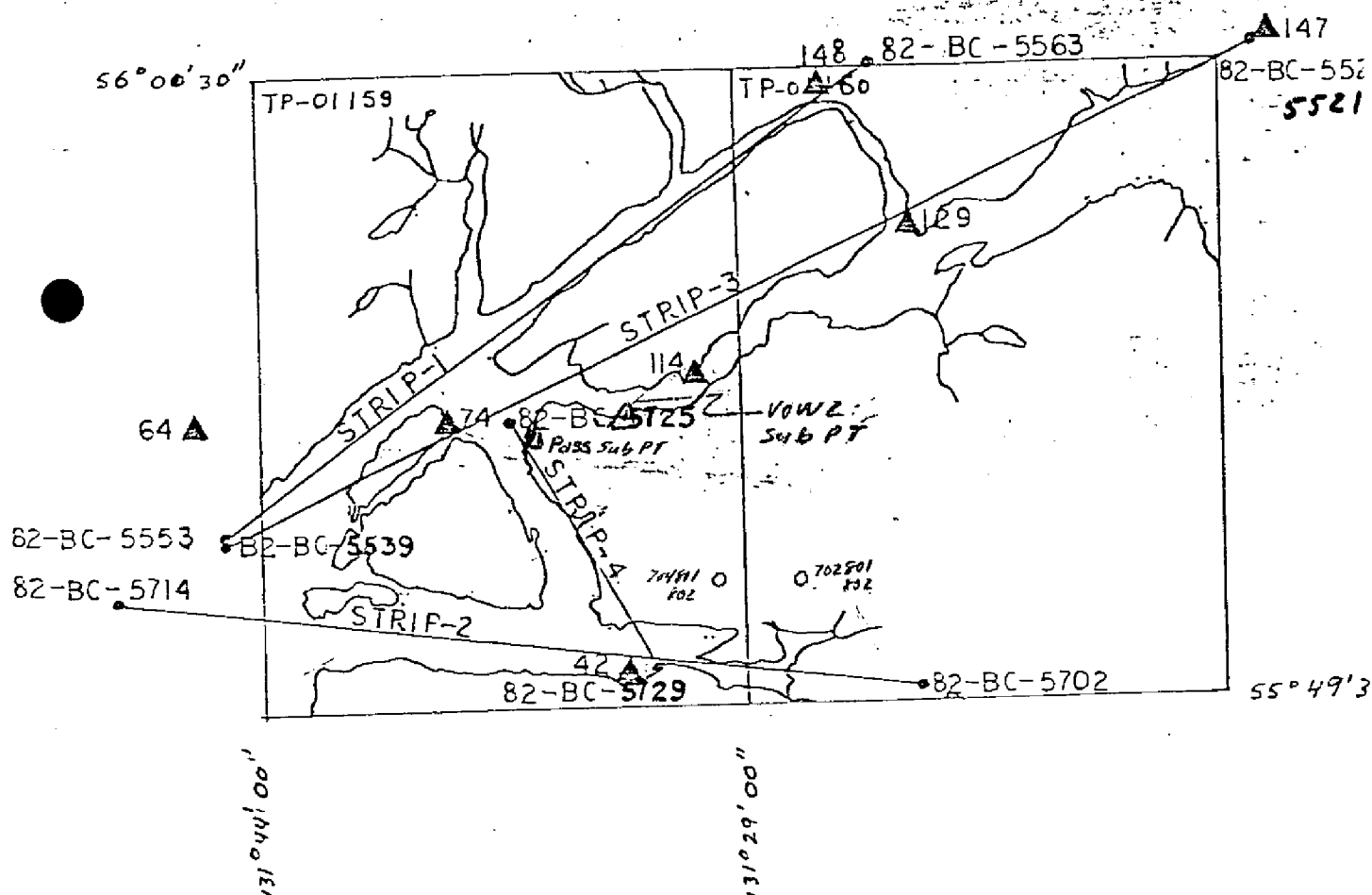
5856 to 5864      x    1.510

5871 to 5877      x    1.508

JOB CM-8201  
 BEHM NARROWS, ALASKA  
 BRIDGING PHOTOGRAPHY  
 1:50,000 SCALE  
 MANUSCRIPT SCALE 1:20,000

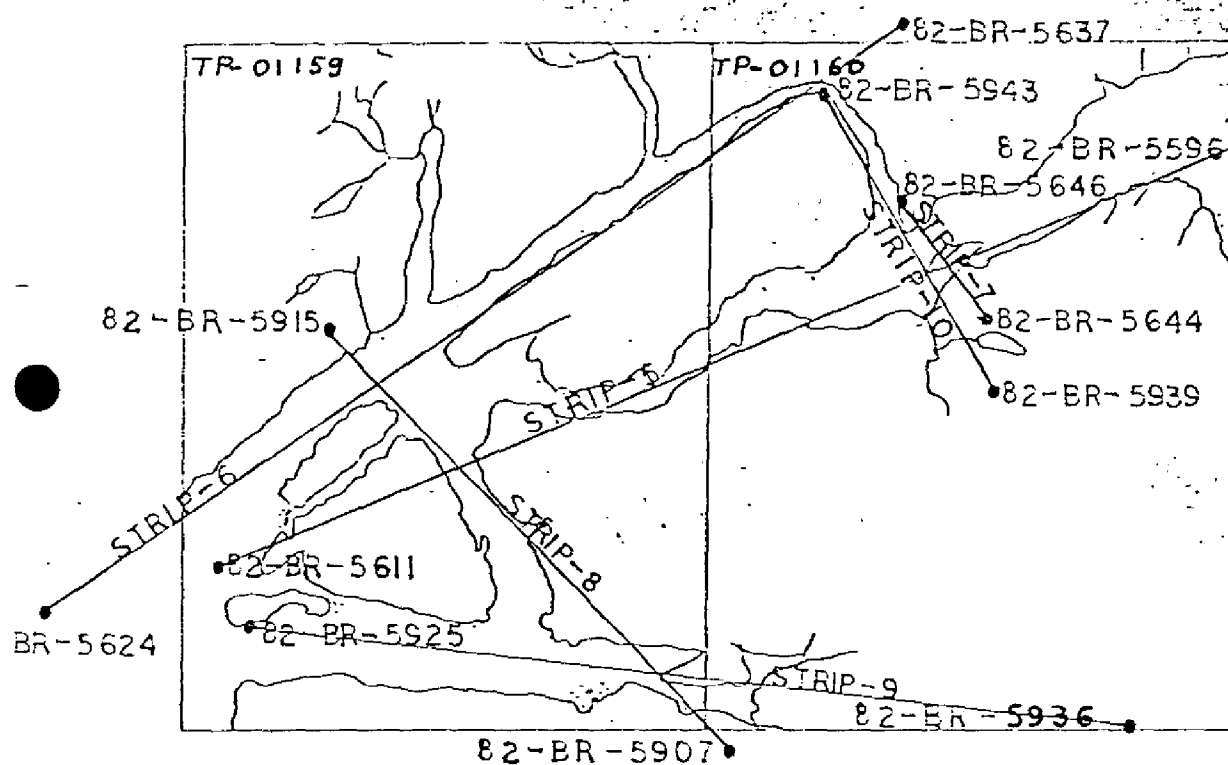
## KEY TO NUMBERED INDEX

42	(SHRIMP, 1930)
64-553101	(YES, 1930)
74-553101	(PASS, 1930)
114-553101	(VOW 2, 1929)
129	(ANCHOR, 1930)
147-521101	(JANE 2, 1929)
148-563101	(OPE, 1930)

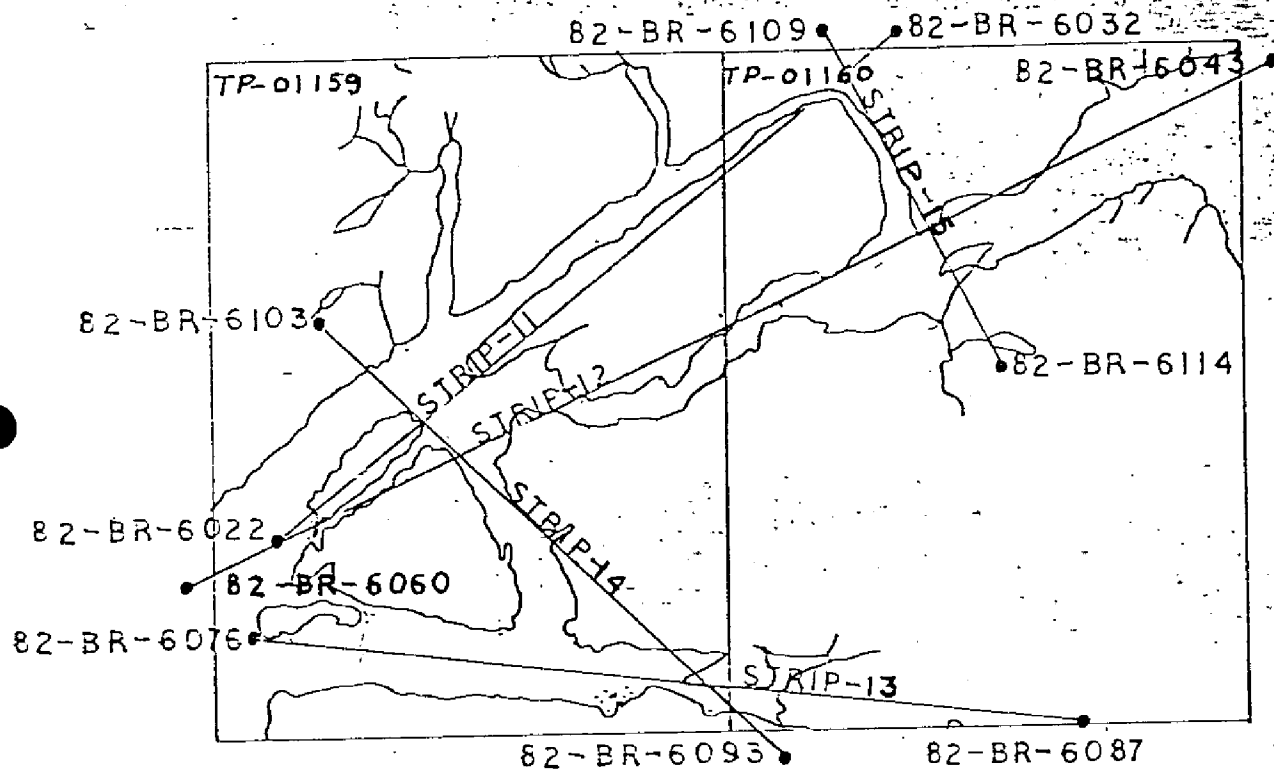




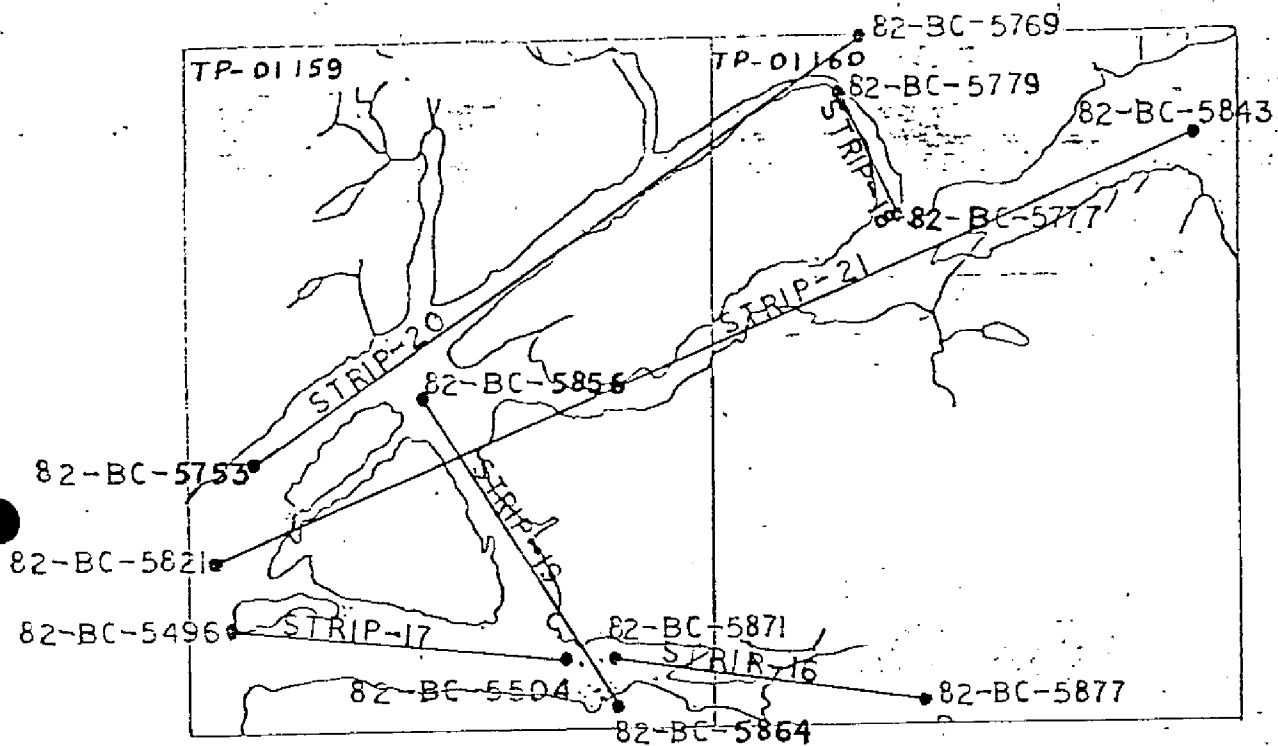
JOB CM-820J  
BEHM NARROWS, ALASKA  
MHW INFRARED PHOTOGRAPHY  
1:50,000 SCALE  
MANUSCRIPT SCALE 1:20,000



JOB CM-8201  
 BEHM NARROWS, ALASKA  
 MLLW INFRARED PHOTOGRAPHY  
 1:50,000 SCALE  
 MANUSCRIPT SCALE 1:20,000



JOB CM-8201  
BEHM NARROWS, ALASKA  
COMPILATION PHOTOGRAPHY  
1:30,000 SCALE  
MANUSCRIPT SCALE 1:20,000





## Compilation Report

CM-8201

TP-01160

31. Delineation

The shoreline, offshore, and interior planimetric features on this map were compiled using the Wild B-8 stereoplotter from 1:50,000 scale color photographs. The photographs were controlled by map points determined by Aerotriangulation Section.

Mean lower low water was compiled graphically from ratioed black-and-white infrared photographs. The infrared photos were controlled using compilation detail.

1:30,000 scale color ratios and 1:50,000 scale mean high water infrared contacts were used as an aid in the interpretation of the shoreline, alongshore, and offshore details.

All bluff on this map agree to Nautical Chart 17422, therefore, no bluffs have been compiled.

32. Control

Refer to the Aerotriangulation Plot Report for the adequacy of the horizontal control. See Item 40. The vertical control used in leveling the Wild B-8 stereoplotter was taken from USGS quadrangle maps.

33. Supplemental Data - None34. Contours and Drainage

Contours are not applicable. Drainage was compiled using the Wild B-8 stereoplotter.

35. Shoreline and Alongshore Detail

The shoreline and alongshore detail was compiled by office interpretation of the photographs. Ledges 30 feet or less alongshore are not shown. No bluffs are shown on the manuscript. Chart 17422 has the bluffs shown.

36. Offshore Detail

Offshore detail consist of rocks, submerged rock, and ledges.

37. Landmark and Aids

No landmark and aids to navigation identified or located during compilation.

38. Control for Future Surveys - None

39. Junctions

TP-01160 junctions to the west to TP-01159. No other junctions are to be made with this map.

40. Horizontal and Vertical Accuracy

No horizontal problems were found during model orientation of the aerotriangulation control point. At the south end of the project area where the two sheets join, the photographs extends one model, not two as stated in the Aerotriangulation Plot Report.

In this area strip 4 is controlled by one control station and 4 tie points. Two of these tie points control the last model of strip 2 which is in question. The end models of strip 2 and 4 were set and compiled on separated manuscripts and then compared for accuracy. There was no distortion of detail and the control used in these strips were accurate and sufficient to compile the map features.

41. thru 45. Inapplicable

46. Comparison with Existing Maps

Comparison was made with the following USGS quadrangle maps:

- Ketchikan (D-4), Alaska, Scale 1:63,360, dated 1955
- Ketchikan (D-5), Alaska, Scale 1:63,360, dated 1953
- Bradfield (A-5), Alaska, Scale 1:63,360, dated 1955

47. Comparison with Existing Charts

Comparison was made with the following Nautical Charts:

- 17420, Scale 1:229,376, July 11, 1981
- 17422, Scale 1:79,334, August 15, 1981

Submitted by,  
*James Schad*  
James Schad

Approved and Forwarded:

*Frank Wright*  
For: Frank Wright  
Chief, Coastal Mapping Section

GEOGRAPHIC NAMES

FINAL NAME SHEET

CM-8201 (Behm Narrows, Alaska)

TP-01160

Bailey Bay	Dress Point
Behm Canal	Fin Point
Behm Narrows	Gedney Island
Bell Arm	Gedney Pass
Bell Island	Hassler Island
Bell Island Hot Springs	Hassler Pass
Bell Island Lakes	Long Lake
Black Island	Pine Lake
Blind Pass	Revillagigedo Island
Brow Point	Short Bay
Convenient Cove	Shrimp Bay
Curlew Point	Snipe Point

Approved by:

*Charles E. Harrington*

Charles E. Harrington  
Chief Geographer  
Nautical Charting Division

REVIEW REPORT  
SHORELINE SURVEY  
TP-01160

61. General Statement

A final review was performed for this shoreline map. No major discrepancies were encountered. Refer to the summary bound with this Descriptive Report.

62. Comparison with Registered Topographic Surveys - None

63. Comparison with Maps of Other Agencies

Refer to the Compilation Report, paragraph 46, bound with this Descriptive Report.

64. Comparison with Contemporary Hydrographic Surveys - None

65. Comparison with Nautical Charts

Refer to the Compilation Report, paragraph 47, bound with this Descriptive Report.

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,

*James Schad*

Approved and Forwarded:

*Robert M. Feltner, Jr.*  
Chief, Photogrammetric Section

*Ronald K. Brewer*  
Chief, Photogrammetry Branch



