

T-12738

T-12738

NOAA FORM 76-35

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

## DESCRIPTIVE REPORT

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

Job No. PH-6502 ..... Map No. T-12738 .....

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

Field Edited

## LOCALITY

State .... Alaska .....

General Locality Glacier Bay-Muir Inlet .....

Locality ..... Sealers Island .....

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19 71 TO 19 72

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## REGISTRY IN ARCHIVES

DATE .....

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.																	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> <td colspan="2" style="text-align: center;">SURVEY <u>T-12738</u></td> </tr> <tr> <td><input checked="" type="checkbox"/> ORIGINAL</td> <td></td> <td colspan="2">MAP EDITION NO. ( )</td> </tr> <tr> <td><input type="checkbox"/> RESURVEY</td> <td></td> <td colspan="2">MAP CLASS</td> </tr> <tr> <td><input type="checkbox"/> REVISED</td> <td></td> <td colspan="2">JOB PH- <u>6502</u></td> </tr> </table>		TYPE OF SURVEY		SURVEY <u>T-12738</u>		<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. ( )		<input type="checkbox"/> RESURVEY		MAP CLASS		<input type="checkbox"/> REVISED		JOB PH- <u>6502</u>	
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PHOTOGRAMMETRIC OFFICE Coastal Mapping Division(Rockville) Coastal Mapping Division(Norfolk)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">LAST PRECEDING MAP EDITION</td> </tr> <tr> <td colspan="2" style="text-align: center;">TYPE OF SURVEY</td> </tr> <tr> <td><input type="checkbox"/> ORIGINAL</td> <td>JOB PH- _____</td> </tr> <tr> <td><input type="checkbox"/> RESURVEY</td> <td>MAP CLASS _____</td> </tr> <tr> <td><input type="checkbox"/> REVISED</td> <td>SURVEY DATES: 19__ TO 19__</td> </tr> </table>		LAST PRECEDING MAP EDITION		TYPE OF SURVEY		<input type="checkbox"/> ORIGINAL	JOB PH- _____	<input type="checkbox"/> RESURVEY	MAP CLASS _____	<input type="checkbox"/> REVISED	SURVEY DATES: 19__ TO 19__						
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<input type="checkbox"/> RESURVEY	MAP CLASS _____																		
<input type="checkbox"/> REVISED	SURVEY DATES: 19__ TO 19__																		
OFFICER-IN-CHARGE Wesley V. Hull Jeffrey G. Carlen																			
<b>I. INSTRUCTIONS DATED</b>																			
1. OFFICE		2. FIELD																	
May 17, 1972																			
<b>II. DATUMS</b>																			
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 type="checkbox"/> MEAN LOWER LOW-WATER <input type="checkbox"/> MEAN SEA LEVEL		OTHER (Specify)																	
3. MAP PROJECTION  Polyconic		4. GRID(S) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">STATE Alaska</td> <td style="width: 50%;">ZONE No. 1</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE Alaska	ZONE No. 1	STATE	ZONE												
STATE Alaska	ZONE No. 1																		
STATE	ZONE																		
5. SCALE 1:10,000																			
<b>III. HISTORY OF OFFICE OPERATIONS</b>																			
OPERATIONS		NAME	DATE																
1. AEROTRIANGULATION BY METHOD: <u>Analytical</u> LANDMARKS AND AIDS BY		R. Kelly																	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradamat</u> CHECKED BY		D. Phillips	6/8/72																
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY INSTRUMENT: <u>B-8</u> CONTOURS BY SCALE: <u>1:20,000</u> CHECKED BY		J.C. Richter	6/9/72																
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY METHOD: <u>Graphic Worksheets</u> CONTOURS BY CHECKED BY SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		J.C. Richter	6/14/72																
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY																			
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		H. Lucas	Jun., 1974																
7. COMPILATION SECTION REVIEW BY																			
8. FINAL REVIEW BY		C.H. Bishop	Jan., 1975																
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY																			
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY																			
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>n. J. Francis</u>	<u>Aug 26, 1975</u>																

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

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) "E" 6" focal length		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		(C) COLOR X (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	
71E(C)4841 - 4843	6/5/71	13:15	1:40,000	12.5 ft. above MLLW	
71E(C)4630 - 4633	6/5/71	10:05	1:20,000	9.0 ft. above MLLW	
71E(C)4585 - 4588	6/5/71	9:42	1:20,000	7.9 ft. above MLLW	

REMARKS 1:20,000 scale photographs ratioed to 1:10,000 for Hydro Support.

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

Office interpretation from 1:40,000 scale color photography dated  
5 June 1971.

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

Not mapped.

## 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
T-12731	No Contemporary Survey	T-12748	T-12747

REMARKS



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

T-12738

## HISTORY OF FIELD OPERATIONS

1. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. B. Watkins	June 1970
2. HORIZONTAL CONTROL	RECOVERED BY A. F. D.	June 1970
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY A. F. D.	June 1970
3. VERTICAL CONTROL	RECOVERED BY	
	ESTABLISHED BY	
	PRE-MARKED OR IDENTIFIED BY	
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY N. A.	
	LOCATED (Field Methods) BY N. A.	
	IDENTIFIED BY	
5. GEOGRAPHIC NAMES INVESTIGATION	TYPE OF INVESTIGATION <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY BY <input checked="" type="checkbox"/> NO INVESTIGATION	None
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	None
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	None

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70 E(c) 7763	Muir 1940		

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

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

CSI Card

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

T-12738

## HISTORY OF FIELD OPERATIONS

I. ☐ FIELD INSPECTION OPERATION☒ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	George M. Poor	June - Sept. 1972
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	
3. VERTICAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA NA NA
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	
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	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	NA

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED None		2. VERTICAL CONTROL IDENTIFIED NA	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
3. PHOTO NUMBERS (Clarification of details)			
4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED None			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME
5. GEOGRAPHIC NAMES: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE		6. BOUNDARY AND LIMITS: <input type="checkbox"/> REPORT <input checked="" type="checkbox"/> NONE	
7. SUPPLEMENTAL MAPS AND PLANS None			
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Field Edit Ozalid and Report.			

NOAA FORM 76-36C  
(3-72)

## RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Shoreline and rocks alongshore and offshore features	6-14-72	Class III Manuscript		June, 1972
Field Edit Applied	June, 1974	Class III		
Corrections made, Final Reviewed as Class I	Jan., 1975		3-11-75	

## II. LANDMARKS AND AIDS TO NAVIGATION

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

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS
			None

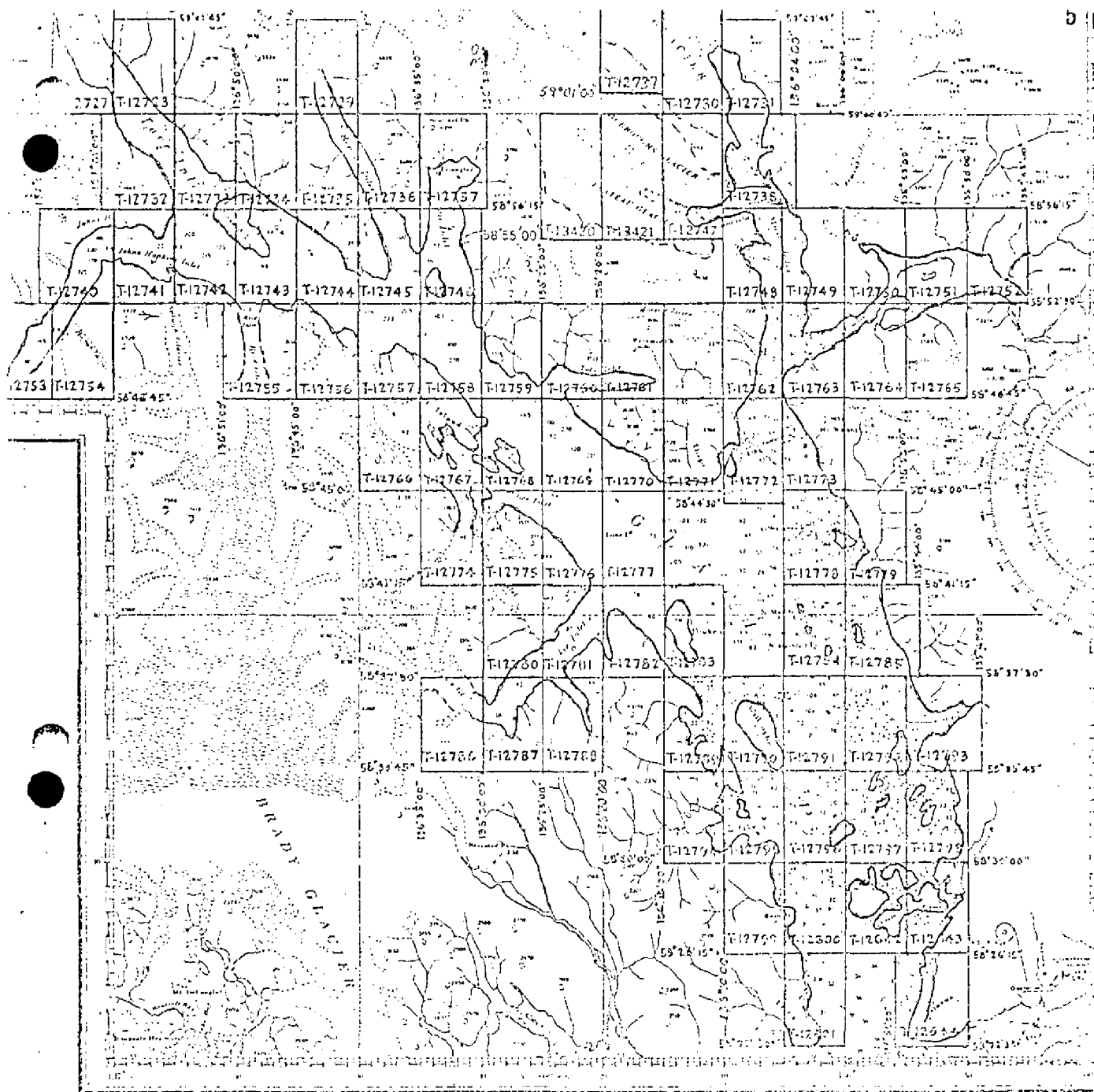
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## 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	



REVISED 9-5-72 RWH

# JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12738

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502 which covers Glacier Bay and its numerous tributaries. For convenience of compilation it is divided into five parts; according to aerotriangulation bridges. This map is one of 10 maps that comprise Part III, Muir Inlet. The job diagram shows its location in the project.

No field work was done before compilation, except premarking of horizontal control for bridging.

Aerotriangulation was done in the Rockville Office in May, 1972. The report could not be located at the time of final review and is not bound with this Descriptive Report.

Compilation was done in Rockville, using the B-8 Stereo-plotter and 1:40,000 scale color photography taken in June, 1971. Photo-hydro support 1:20,000 scale color photographs ratioed to 1:10,000 scale were furnished for the hydrographer's and field editor's use. All photography was taken above half tide.

Field edit was done in conjunction with hydrography in September, 1972. Since hydrography was done at 1:20,000 scale, photographs were used very little for signal location and edit. Most of this work was done with T-2 theodolite and sextant. Field edit was applied in the Rockville Office and forwarded to the Atlantic Marine Center for final review as Class III Manuscripts. Comments on this application follow the Compilation Report which is bound with this Descriptive Report.

Final review was done at the Atlantic Marine Center in January, 1975. This final reviewer does not agree that T-12738 should be registered as a Class III map; it should be registered as Class I. See Review Report T-12738, Item 61, bound with this Descriptive Report.

The original manuscript was a stabilene sheet 3 minutes 45 seconds in latitude by 5 minutes 30 seconds in longitude.

A stable base negative and a positive copy of the final reviewed manuscript were forwarded for record and registry.

AEROTRIANGULATION REPORT

GLACIER BAY - PART III

Maps T-12738, T-12748 thru T-12752, T-12762 thru T-12765

No aerotriangulation report for this part of Project PH-6502 was available to the final reviewer at the time of final review, nor could one be located at the Atlantic Marine Center or in the Rockville Office.





## COMPILATION REPORT

T-12738

31. DELINEATION

1:40,000 scale color photography was set on the B-8 stereo-plotter to delineate the MHW line, features offshore and approximately 800 feet back of the shoreline.

The photography was hazy and it was difficult to see rocks along the shoreline.

1:20,000 scale color photography ratioed to 1:10,000 scale for hydro support were used to try and locate as many rocks as possible, but a combination of a lower tide level and chunks of ice on the shoreline made it difficult to see rocks and many may have been missed and will have to be located by hydro.

Points common on the 1:40,000 scale with the 1:10,000 scale ratios were pricked for hydro support.

32. CONTROL

Control was adequate for density and placement.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

N.A.

35. SHORELINE AND ALONGSHORE DETAIL

The MHW line is from office interpretation. The low water line is from the lowest tide photography and is only approximate. No shoals were located.

*See Review Report, Par. 61.*

*C.H.B.*

*3-17-75*

36. OFFSHORE DETAILS

The compilation photography was hazy and the difference in the tide level between the 1:40,000 scale and the 1:10,000 scale along with chunks of ice along the shoreline made it difficult to locate rocks.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

North with T-12731

East no contemporary survey.

South with T-12748

West with T-12747

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to Photogrammetric Plot Report.

Lost  
CHB  
3/12/75

41. thru 45.

Inapplicable

46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER (D-1) ALASKA scale 1:63,360 edition 1948 with minor revisions 1963.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 8202 scale 1:209,978 17th edition Sept. 11, 1971.

Respectfully Submitted:

John C. Richter

27 Nov. 1974

## GEOGRAPHIC NAMES

## FINAL NAME SHEET

PH-6502 (Glacier Bay-Muir Inlet, Alaska)

T-12738

Curtis Hills

Forest Creek

Glacier Bay National Monument

Goose Cove

Muir Inlet

Nunatak Cove

Sealers Island

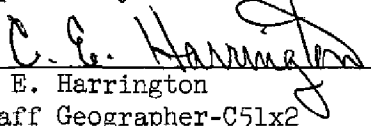
Stump Cove

The Nunatak

Wachusett Inlet

Westdahl Point

Approved by:

  
C. E. Harrington  
Staff Geographer-C51x2

GLACIER BAY, ALASKA, JOB PH-6502  
HYDRO SUPPORT SHORELINE MANUSCRIPTS  
T-12738, 12748, 12749, 12750, 12751

Notes on application of field edit:

A review of Field Edit Report, (OPR-460) was made to determine the extent of field edit application required. The following conclusions were made:

After compiling the manuscripts at 1:10,000 scale, the hydrographic survey was conducted at 1:20,000 scale.

The ratio prints prepared for photo-hydro support and field edit were not utilized.

All hydro signals were located by traverse methods, positions computed and plotted on the boat sheet.

Sextant and T-2 fixes to foreshore rocks, the MHWL and other shoreline features were taken from these signals, plotted on the 1:20,000 scale boat sheets & transferred by proportional dividers to the 1:10,000 scale ozalid copy of the manuscripts.

The "spot" points transferred from the 1:20,000 scale boatsheets to the 1:10,000 scale manuscripts for the MHWL were inadequate to do revisions to the shoreline as compiled.

This project thus became a field hydrographic survey only.

All rocks and other foreshore features not visible on the photography that were plotted directly on the boat sheets from field fixes were not duplicated on the shoreline manuscripts as these were applied by hydrographic processing to the smooth sheet.

These conclusions were discussed with the Marine Chart Division and agreement was reached on the method of completing this project as far as the Coastal Mapping Division is concerned.

The ten manuscripts will be registered as a "Class III" map and is to be used as a source for shoreline compilation only.

Limited use was made of the field edit data. Corrections that could be applied on the 1:10,000 scale manuscripts were the removal of coralled rocks that were icebergs, the labeling of "rocky beach" and the addition of a few shoal areas.

A comparison was made between H-9317 and H-9318 (1:20,000) and the ten shoreline manuscripts. There was no conflict between the shoreline as compiled on the manuscripts and the hydrographic data.

Submitted by,

J. P. Battley, Jr.  
Chief, Coastal Mapping  
Section

## Field Edit Report, OPR-460

Glacier Bay, Alaska

NOAA Ship McARTHUR

June - September, 1972

In accordance with project instructions OPR-460, Glacier Bay, Alaska, all shoreline of the Glacier Bay area within the project limits was inspected. All significant rocks were noted and the mean high water line was delineated. All questions on the field edit ozalid were answered.

Three-point sextant fixes on signals established for hydrography were most commonly used to locate positions. Photos were used on occasion; however, with the abundance of signals it was more expedient to use sextant fixes. Check angles were provided when possible. A list of the signals and their geographic positions accompanies this report.

Rocks were noted with their height above water and the time and date of observation. In some cases, where it was more convenient, rocks were noted with height above the apparent mean high water line. Only larger, more prominent and/or navigationally significant rocks were noted, since the area as a whole is quite rocky. All times are given in PDT, which is 105°W time meridian.

No attempt was made to delineate the MHWL (mean high water line) in low flat tidal areas. Areas of this nature possess very little relief and the mean high water line is characteristically obscure. In such areas, a sextant fix at the water's edge was obtained at the time of inspection and noted on the field edit ozalid.

The seaward faces of glaciers are subject to constant change and for obvious reasons are not delineated by the editor.

There are no cultural objects in Glacier Bay except for the obscure ruins of a cabin in Reid Inlet. There is nothing of particular landmark value in the survey area. Bluffs of a precipitous and extensive nature were often cited by the compiler as potential landmarks. In a less primitive and stark environment replete with vegetation and soft contours, such bluffs might appear distinctive. However, Glacier Bay, in its upper regions, is a land devoid of vegetation, rich in bold relief, and characteristically monochromatic.

None of the fixes on the field edit ozalids were plotted directly. Compilation of T-sheets was accomplished at 1:10,000 scale and the boat sheets containing the plotted hydro signals, were at 1:20,000



scale; therefore, it was impractical to plot positions directly on the field edit ozalids. All three-point fixes were plotted on the boat-sheets (1:20,000 scale) and then transferred to the ozalid with proportional dividers.

Purple ink was used on the ozalid to mark positions and to note comments. Photos that were used in field edit have been annotated with orange-red ink. A commentary on the editing of individual T-sheets follows.

T-12740

There are many large rocks shown that are probably rock and dirt laden icebergs. On inspection of the areas where these rocks were said to be, no evidence of their existence was found. The misidentified icebergs have been noted on the field edit ozalid.

T-12741

An islet (58°54.0'N, 136°55.2'W) shown on USC&GS Chart 8202 (17th Ed. 11/71) is not detached from the mainland. A gorge in the rocky promontory might lead to this interpretation; however, the base of the gorge is well above MHW. A small extension of this same promontory at 58°54.05'N, 136°55.3'W forms an islet at MHW and has been delineated on the field edit ozalid.

T-12742

Compilation of this manuscript below 58°54'15"N is incomplete; however, a foul area replete with rocks and a reef were located at 58°53.0'N, 136°50.3'W. The area should be considered a hazard to navigation.

A cove is shown on the manuscript at 58°53.7'N, 136°54.8'W that does not exist. The true MHWL throughout this area is further to the seaward than is drawn on the manuscript. The MHWL is correctly delineated on the field edit ozalid.

T-12743

There is a dangerous reef at 58°55.3'N, 136°46.1'W which might prove especially hazardous to safe navigation. The reef is below the MHWL and near favorable sites for the anchorage of large vessels.

A large foul area is found in the vicinity of 58°55'20"N, 136°47'45"W. The many rocks and reefs in this area have been delineated on the field edit ozalid.

T-12744

An object suspected to be a rock at 58°53.8'N, 136°41.0'W is in all

probability a dirt and rock laden iceberg. No rock was found on inspecting the area. This misidentification of icebergs is a common problem in this area of Glacier Bay.

In the area around Joan Rocks (incorrect name, see Geographic Names Report, OPR-460), two reefs were delineated. A reef compiled at 58°54.4'N, 136°43.7'W on the manuscript does not exist.

#### T-12745

A rock (58°52.9'N, 136°37.95'W) shown on the manuscript was not found on inspection. See previous discussions on rock and dirt laden icebergs. Rendu Inlet was not inspected by the field editor. Its distance from the project area and the inefficient use of time attendant upon the establishment of hydrographic control in the area argued against inspection.

#### T-12754

The limits of Hoonah Glacier have been inked on photo 4635. The southern half of the face of this glacier hangs on a precipitous slope far above the water's edge. It is to be expected that this precarious position subjects the face to frequent changes in this area.

#### T-12755

(not in McARTHUR's inventory)

As noted, this manuscript was not transmitted to McARTHUR. Aerial photography for Reid Inlet was flown in June 1972. Presumably the manuscript will be compiled on receipt of the photographs from this flight. McARTHUR surveyed Reid Inlet in July 1972. The following list of field edit positions in Reid Inlet is appended for the convenience of the compiler.

#### REID INLET ROCKS

August 10, 1972

\* denotes check angle

No.	Angles	Signal Nos.	Description
9744	41°56'	100	Rock bares 10'; 15'
	53°56'	59	diameter. 0900 PDT
	*70°28'	60	
		*114/59	
9745	31°48'		Rock bares 2'; 4'
	67°12'	same	diameter. 0909 PDT
	*58°56'		



T-12757

The field editor's inspection for rocks at 58°50.75'N, 136°38.8'W and 58°50.8'N, 136°39.3'W indicates that they probably do not exist. Many icebergs were observed to congregate in the area, and such bergs were most probably misidentified as rocks.

The area south of 58°50'00" was not inspected. Its distance from the hydrographic survey area, and the inefficient use of time attendant upon the establishment of hydrographic control in the area argued against inspection.

T-12748 -

Two isolated rocks at 58°54.85'N, 136°06.3'W are an especially noteworthy hazard to navigation. Both are below the MHWL and lie near favorable anchorage sites for large vessels.

A reef lies inside the mouth of Wachusett Inlet at 58°56.2'N, 136°10.0'W that is hazardous to the safe navigation of the inlet. The area between the reef and the south shore of the inlet is shallow (see boatsheet MA-20-3-72, H-9317).

T-12749 -

The large alluvial fan between latitudes 58°53.7'N, and 58°54.7'W possesses a particularly extensive network of offshore sand bars. The bars are composed of loose sand and are subject to frequent change.

## ADAMS INLET

Verification of the tree line in Adams Inlet was not accomplished by the field editor. The predominant tree in the inlet is the Sitka Alder. The Alder's overwhelming abundance and phenomenal growth rate argue against any constructive purpose being served by a description of Alder forest boundaries.

T-12750 -

A shoal at 58°53.25'N, 135°55.9'W was confirmed by indirect methods. Launch AR-1 struck the rocky shoal shortly after (10-20 seconds) a position fix at 1141 PDT, 24 September. As the launch was on a heading that would carry it directly over the shoal, the shoal's position is confirmed. The launches outriggers struck the shoal. They project approximately 2 feet below the water's surface.

T-12751 -

The narrow channel at 58°54.3'N, 135°51.5'W is a potentially hazardous passage because of the rocks (delineated on the field edit ozalid) and the strong tidal current.

Two shoals near 58°54.3'N, 135°54.6'W are composed of water-saturated mud and are hazardous for the unwary boater. The light grey color at lower stages of the tide blends well with the water. And one may speedily run firmly aground before being aware of it.

The shoal at 58°52.7'N, 135°53.9'W is composed of rock and because of its mid-channel location it is particularly noteworthy.

T-12764

A large mid-channel rock at 58°51.7'N, 135°59.1'W is the most distinctive hazard to navigation in Adams Inlet and the most impressive shoal in all of upper Glacier Bay. During periods of ebb and flood, the tidal velocity is greatly increased in the vicinity of this rock because of the constriction in the channel. Whitehorses dance madly about the rock as large whirlpools are shed from its sides.

Prepared by:

*Steven R. Birkey*

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LT(jg), NOAA

Approved by:

*George M. Poor*

George M. Poor  
CDR, NOAA  
Commanding Officer  
NOAA Ship McArthur

## REVIEW REPORT T-12738

## SHORELINE

January 14, 1975

61. GENERAL STATEMENT:

See Summary, which is page 6 of this Descriptive Report.

A comparison print, showing differences noted in Par. 62 and 64 is bound with the original of this report.

Sextant fixes were hand-plotted on this sheet and found to be within the National Standards of Map Accuracy in all but three instances. One fix was in a run-off area where the mean high water line is very unstable and the fact that it did not hit the compiled shoreline was considered insignificant. Shoreline was changed without any difficulty to fit the other two fixes. The dotted line at the edge of water at the time of photography, which was taken at 8 feet or more above MLLW, was removed; it was meaningless. Bluff lines were removed. See Field Editor's comment in Field Edit Report accompanying this Descriptive Report. Tree lines were removed. See Field Editor's comment on Field Edit Ozalid and memorandums dated October 18, 1965 and October 27, 1965.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey No. 6758, Upper End of Muir Inlet, Scale 1:20,000 dated July-August, 1940. Significant differences are shown on the comparison print in blue.

In the area compared, T-12738 supersedes T-6758 for nautical chart construction purposes. T-6758 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER D-1, ALASKA, scale 1:63,360, dated 1954. No significant shoreline differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of the smooth sheet for Survey H-9317 (MA-20-3-72). No significant differences were noted. The rock at the northwest side of Nunatak Cove has an elevation of 8 feet above MLLW on the smooth sheet. Field edit data computed on predicted tides by the final reviewer gave an elevation of 9 feet above MLLW, which is the elevation shown on T-12738.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8202, scale 1:209, 978, 18th Edition, dated Nov 3, 1973. No significant differences were noted. The chart scale is too small for an adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Although there is no Aerotriangulation Report with this section of PH-6502, this reviewer was assured by Mr. John Perrow, Chief of Bridging Section, by telephone conversation on January 21, 1975, that this job complies with Bureau standards and meets requirements for National Standards of Map Accuracy.

Reviewed by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer

Approved for forwarding:

Victor E. Serena  
Chief, Photogrammetric Branch, AMC

Approved:

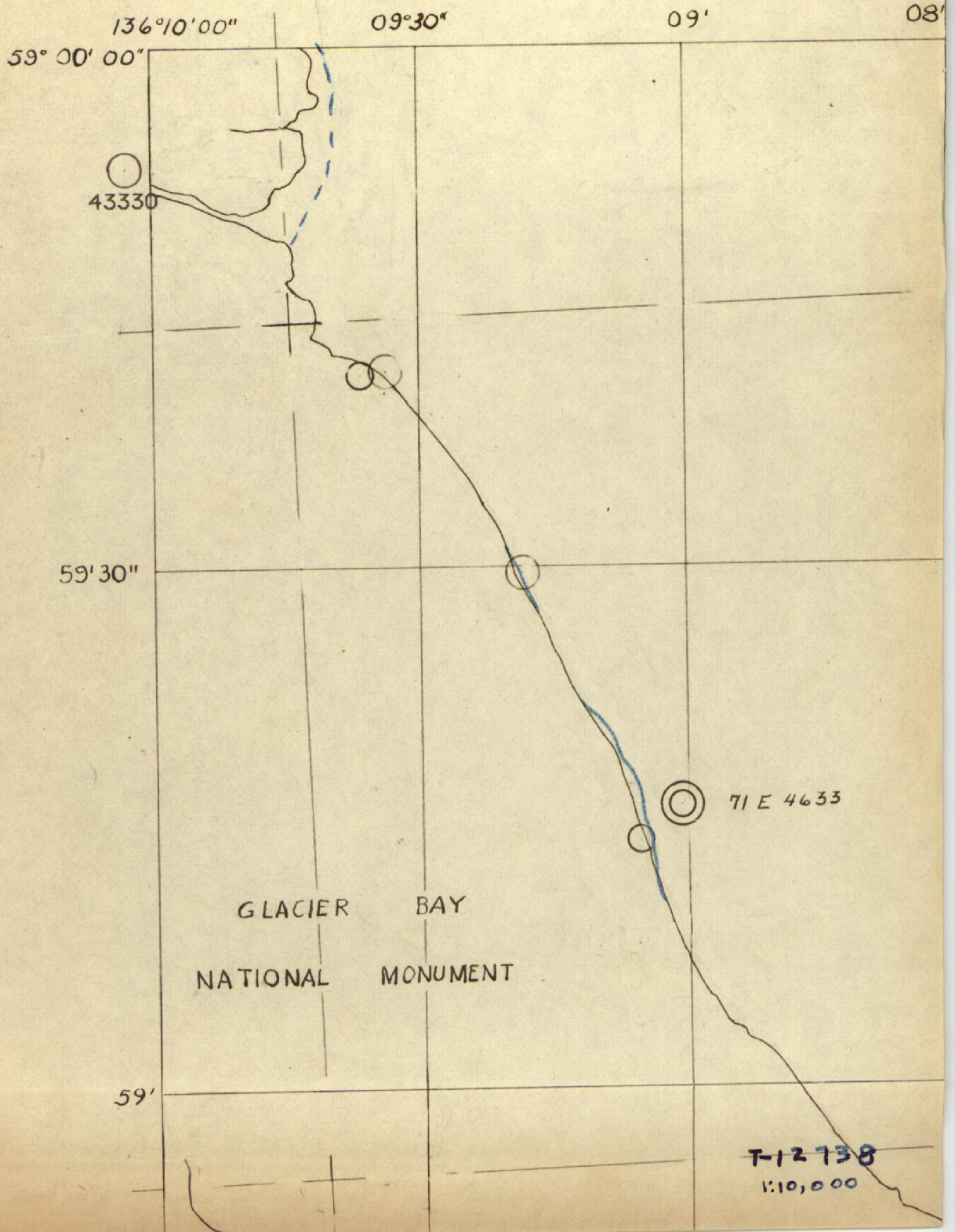
Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.



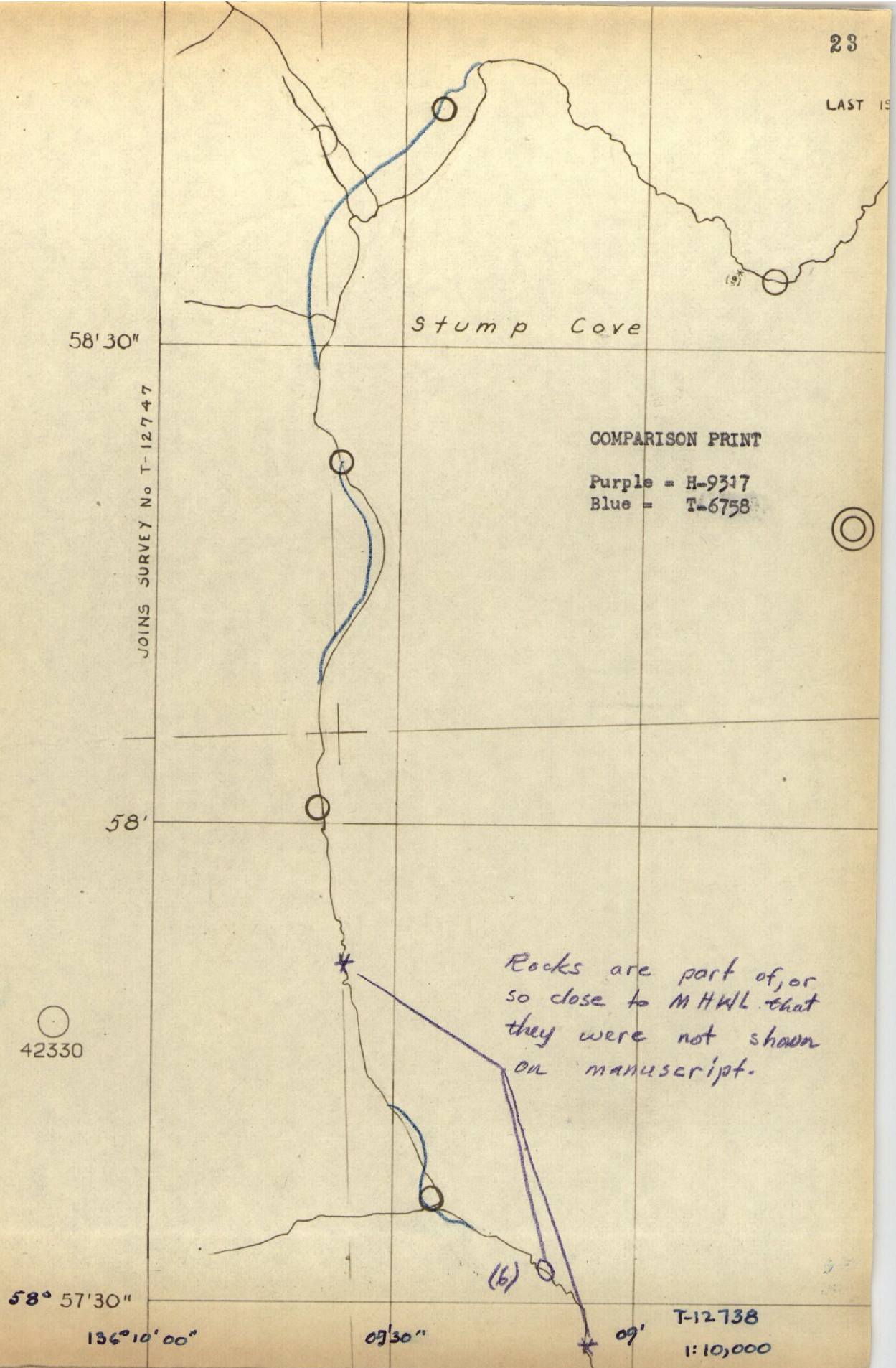
COMPARISON PRINT

Blue = T6758



T-12738

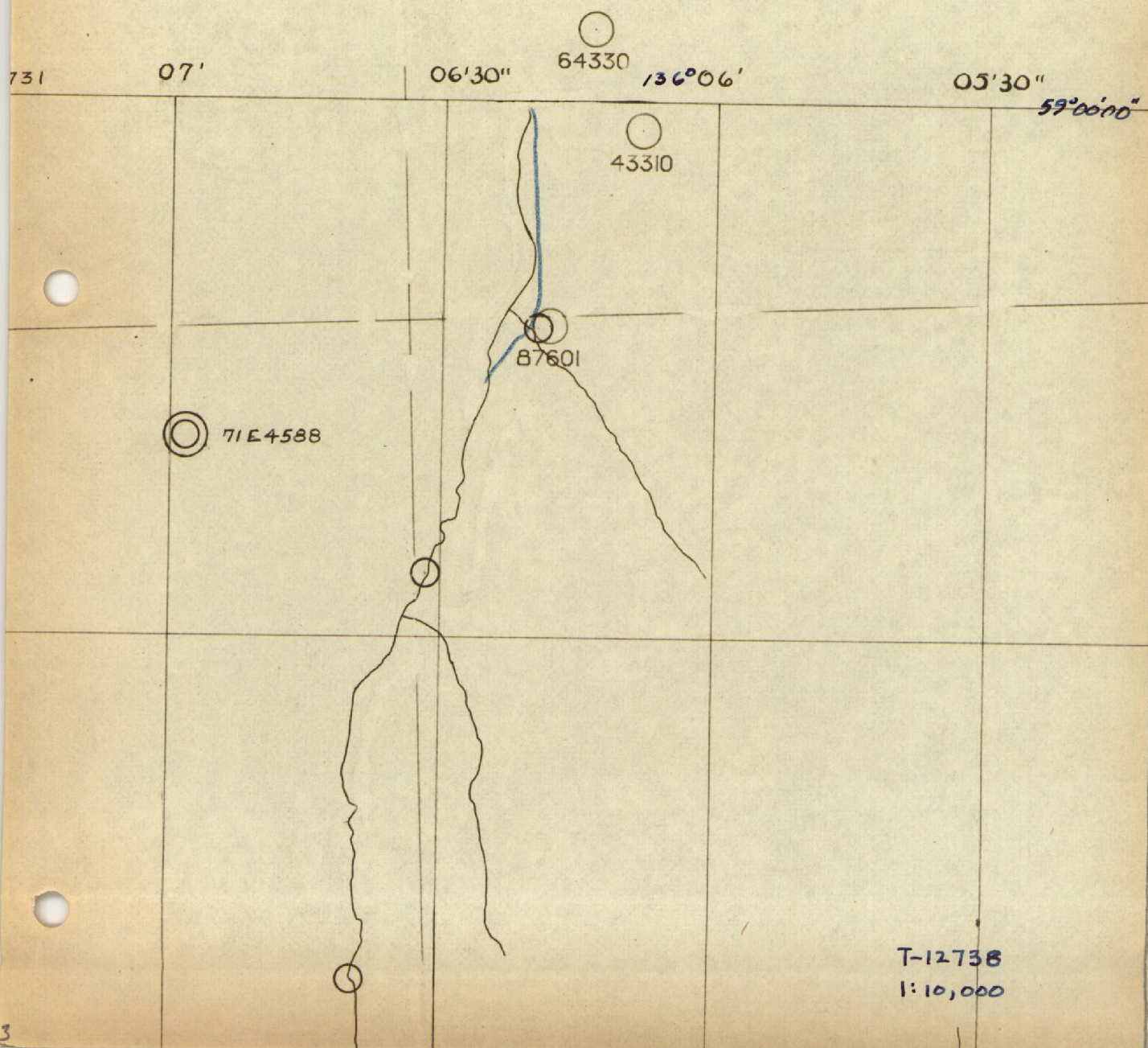






COMPARISON PRINT

Blue = T-6758





136°07'00"

46'30"

06'

25

59'

71E4587

Nunatak Cove

58'30"

COMPARISON PRINT

Blue - T-6758

GLACIER BA

42310

58° 58'

NATIONAL

MONUM

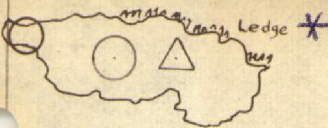
71E4586

T-12738

1:10,000



MUIR 1940 (a)



Goose

85602

31602

28

57' 30"

58° 51' 00"

COMPARISON PRINT

Blue = T-6758



71 E 4585

56' 30"

136° 07' 00"

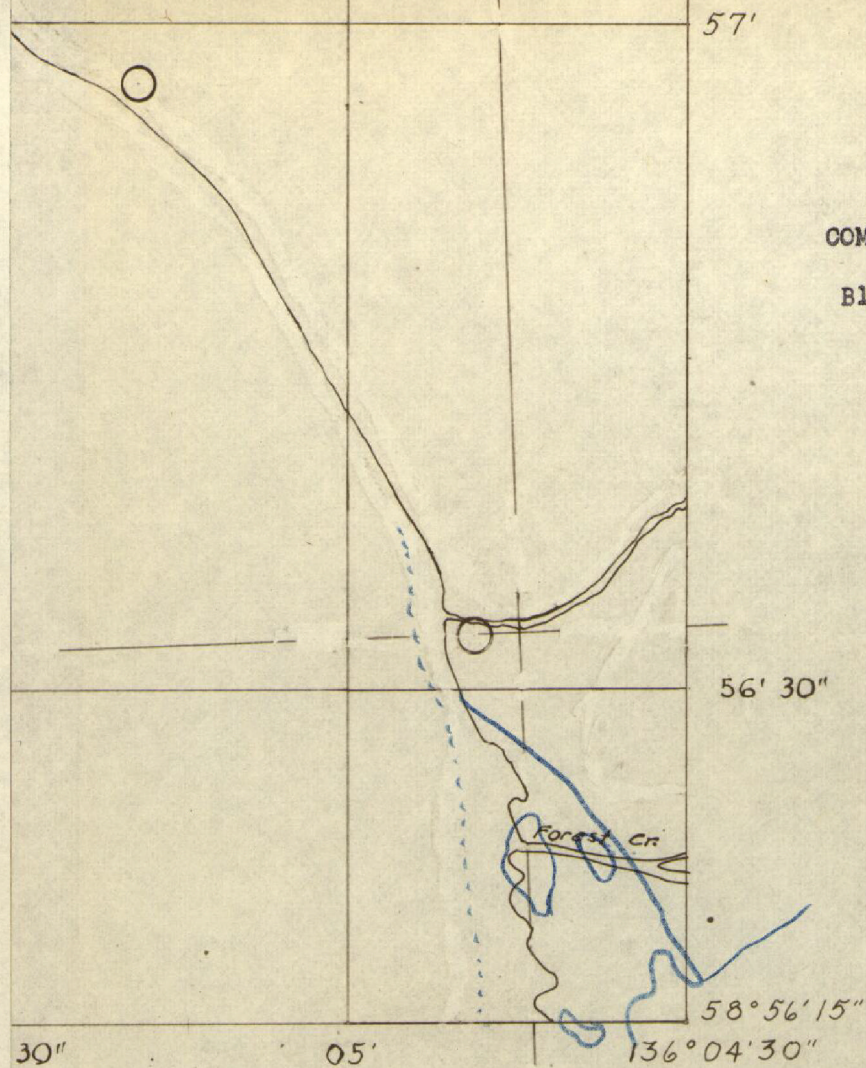
06' 30"

06'

T-12738

1:10,000





COMPARISON PRINT

Blue = T-6758

OCEAN SURVEY

MANUSCRIPT

12738

ASKA

AY-MUIR INLET

RS ISLAND

1:10,000

ection 1927 N.A Datum

ka Zone I Plane Coordinate System

- Mean High Water

T-12738

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR  
TO REGISTRATION