

T-12731

ORIGINAL

T-12731

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-12731 .....

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

### LOCALITY

State ..... Alaska .....

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

Locality ..... McBride Glacier .....

1972 TO 19

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	
<b>DESCRIPTIVE REPORT - DATA RECORD</b>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.		SURVEY T. <u>12731</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH. 6502</u>	
OFFICER-IN-CHARGE  Jeffrey G. Carlen		LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH. _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u>   </u> TO 19 <u>   </u>	
<b>I. INSTRUCTIONS DATED</b>			
<b>1. OFFICE</b>		<b>2. FIELD</b>	
Aerotriangulation 5/18/73 Compilation Supp. II 6/14/73 Final Review 6/03/77		May 5, 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) STATE <u>Alaska</u> ZONE <u>1</u>	
5. SCALE  1:10,000		STATE _____ ZONE _____	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	
DATE			
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY _____		D. Norman Feb 1974	
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp PLOTTED BY _____ CHECKED BY _____		R. Robertson Sep 1974 R. Robertson Sep 1974	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000 PLANIMETRY BY _____ CHECKED BY _____ CONTOURS BY _____ CHECKED BY _____		L. O. Neterer Jr. Dec 1974 R. R. White Dec 1974 NA NA	
4. MANUSCRIPT DELINEATION METHOD: Smooth drafted SCALE: 1:10,000 PLANIMETRY BY _____ CHECKED BY _____ CONTOURS BY _____ CHECKED BY _____ HYDRO SUPPORT DATA BY _____ CHECKED BY _____		Charles Parker Dec 1974 NA NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY _____		C. Parker Jan 1975	
6. APPLICATION OF FIELD EDIT DATA BY _____ CHECKED BY _____		None	
7. COMPILATION SECTION REVIEW BY _____		None after 5 above	
8. FINAL REVIEW BY _____		C. H. Bishop Oct 1977	
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY _____		C. H. Bishop Dec 1977	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY _____		J. B. Phillips Jan 1978	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY _____		R. T. Catbr May 1978	

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

T-12731

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU		(C) COLOR X (P) PANCHROMATIC (I) INFRARED		ZONE	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES Muir Inlet				Pacific	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				120th	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(C) 4614-4616	7/04/72	12:05	1:40,000	3.4 ft. above MLLW	

REMARKS

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

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

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

None compiled.

## 4. CONTEMPORARY HYDROGRAPHIC SURVEYS (List only those surveys that are sources for photogrammetric survey information.)

SURVEY NUMBER	DATE(S)	SURVEY COPY USED	SURVEY NUMBER	DATE(S)	SURVEY COPY USED

## 5. FINAL JUNCTIONS

NORTH	EAST	SOUTH	WEST
No survey	No survey	T-12738	T-12730

REMARKS

T-12731  
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	J. B. Watkins, Jr.	Jun 1970
2. HORIZONTAL CONTROL	RECOVERED BY NA ESTABLISHED BY A.F.D. PRE-MARKED OR IDENTIFIED BY A.F.D.	Jun 1970 Jun 1970 Jun 1970
3. VERTICAL CONTROL	RECOVERED BY NA ESTABLISHED BY NA PRE-MARKED OR IDENTIFIED BY NA	
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 <input type="checkbox"/> COMPLETE <input type="checkbox"/> SPECIFIC NAMES ONLY <input checked="" type="checkbox"/> NO INVESTIGATION	
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY None	
7. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY None	

## II. SOURCE DATA

1. HORIZONTAL CONTROL IDENTIFIED

2. VERTICAL CONTROL IDENTIFIED

NA

PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DESIGNATION
70E(C) 7765	DOC, 1970		

3. PHOTO NUMBERS (Clarification of details)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

5. GEOGRAPHIC NAMES: ☐ REPORT ☒ NONE6. BOUNDARY AND LIMITS: ☐ REPORT ☒ NONE

7. SUPPLEMENTAL MAPS AND PLANS

None

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

1-Form 152, Control Station Identification.

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12731  
RECORD OF SURVEY USE

## I. MANUSCRIPT COPIES

COMPILATION STAGES			DATE MANUSCRIPT FORWARDED	
DATA COMPILED	DATE	REMARKS	MARINE CHARTS	HYDRO SUPPORT
Compilation complete pending field edit	Dec 1974	Class III		
Final Review, prior to registration	Oct 1977	Class III No corrections	Nov. 1977	

## II. LANDMARKS AND AIDS TO NAVIGATION

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

NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED	REMARKS

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

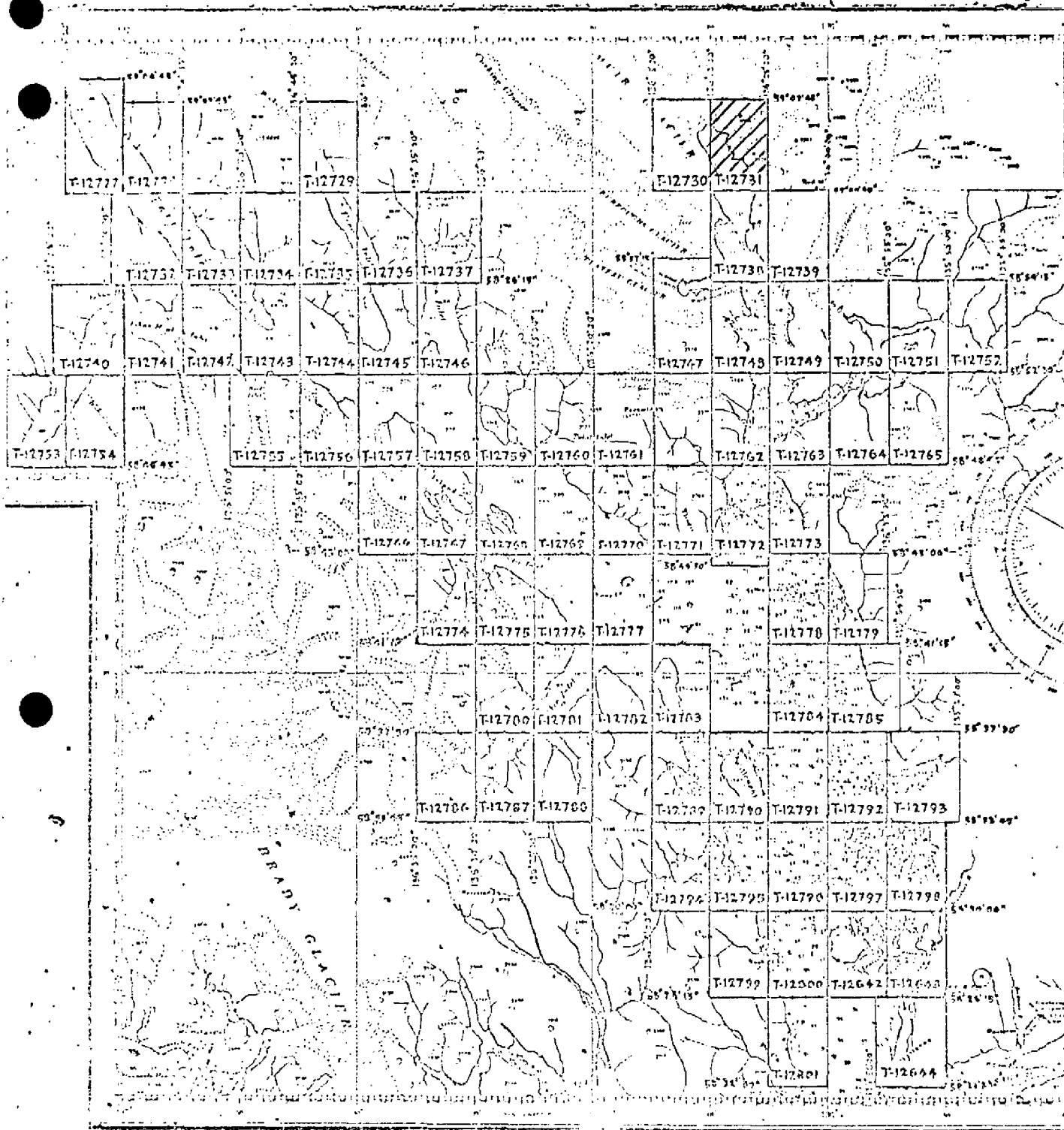
## III. FEDERAL RECORDS CENTER DATA

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	



JOB PH-6502  
GLACIER BAY,  
ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12731

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502, Glacier Bay, Alaska. The project diagram shows its location in the project.

The only field work done prior to compilation was the establishment and premarking of one horizontal control station required for bridging.

Aerotriangulation was done in Rockville in February 1974.

Compilation was done at the Atlantic Marine Center in December 1974, using 1:40,000 scale color photography of July 1972. Since shoreline compilation followed hydrography, no photo-hydro support was required.

No field edit was accomplished. It was postponed indefinitely per letter dated June 3, 1977.

Final review of the Class III manuscript was done at the Atlantic Marine Center in October 1977.

The original manuscript was a stabilene sheet three minutes forty-five seconds in latitude by five minutes in longitude. It was forwarded to Rockville for processing a film positive for filing in the Archives, one reproduction negative to be filed in the Reproduction Branch, and two negatives to be forwarded to the Photo Map and Imagery Information Section for dispersal.

Supplemental Plot Report  
Glacier Bay, Alaska  
PH-6502  
February 1974

21. Area Covered

This report pertains to the northern part of Glacier Bay, Alaska. The sheets covered are T-12739, T-12730, T-13420, T-31421, T-12747, T-12729, T-12735 thru T-12737, T-12746, T-12741, and T-12755.

22. Method

Four strips of 1:40,000 scale color photography were bridged by analytic aerotriangulation methods. Points were transferred from the 1:40,000 scale photography to 1:30,000 scale color photography to be used for compilation. These compilation points and data for projections and grids were furnished to the Coradomat to be plotted on the Alaska state plane coordinate system, zone 1.

23. Adequacy of Control

The control was adequate.

24. Supplemental Data

None was used.

25. Photography

The photography was adequate.

26. Purpose

The area is covered by previous photography that was used in bridging and compilation. New control stations were put in and the 1972 photography was flown to cover areas where the glaciers have receded.

Submitted by,

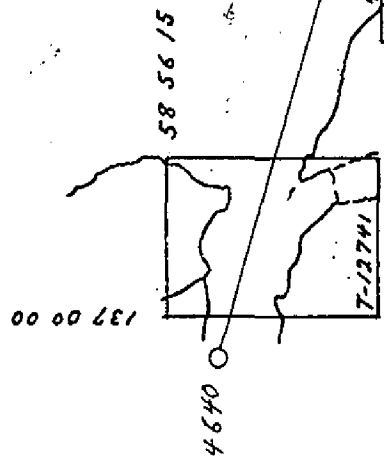
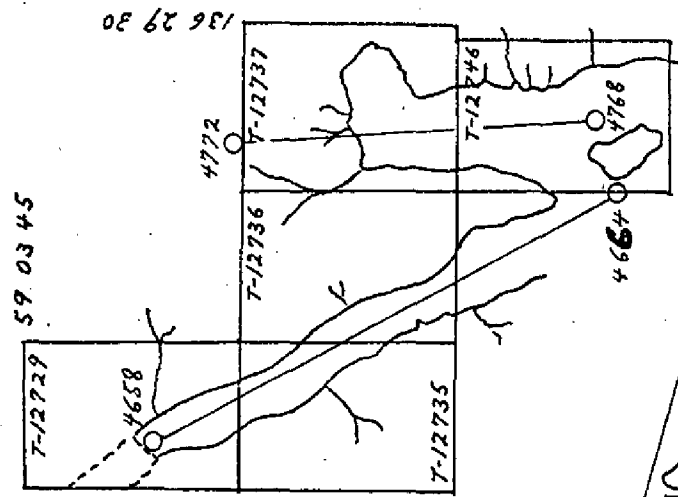
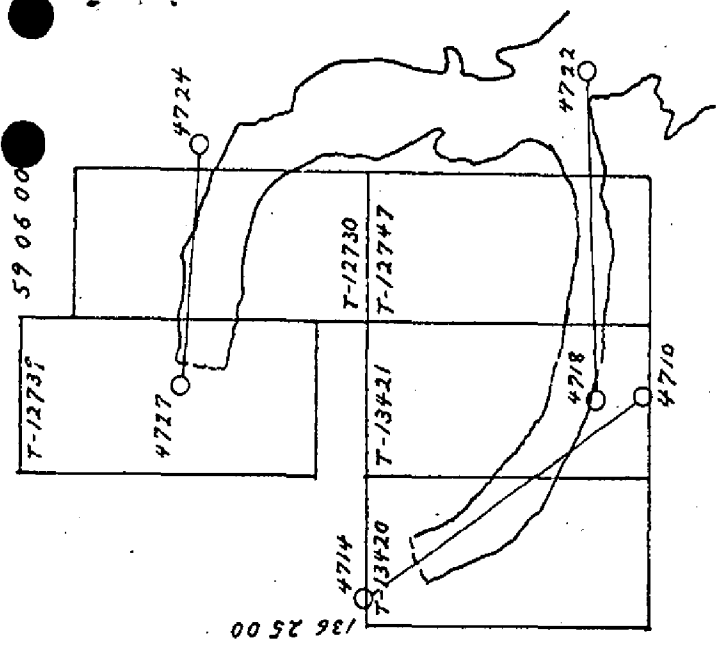
*Don O. Norman*

Don O. Norman

Approved by:

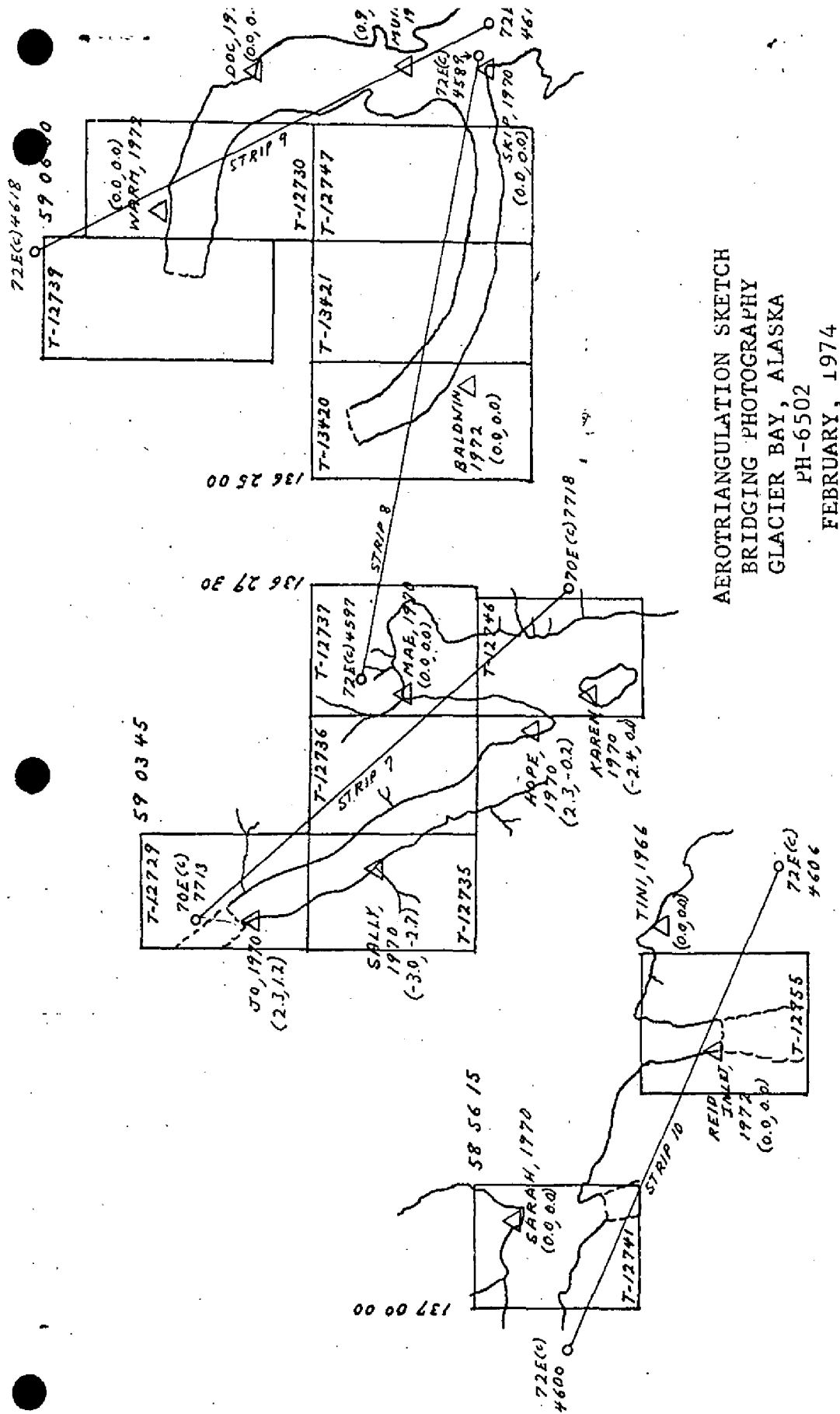
*John D. Perrow, Jr.*  
John D. Perrow, Jr.  
Chief, Aerotriangulation Section





AEROTRIANGULATION SKETCH  
 COMPILATION PHOTOGRAPHY  
 GLACIER BAY, ALASKA  
 PH-6502  
 FEBRUARY, 1974

0 1:30000 scale 72E color photography



AEROTRIANGULATION SKETCH  
BRIDGING PHOTOGRAPHY  
GLACIER BAY, ALASKA  
PH-6502  
FEBRUARY, 1974

01:40000 scale color photography



## COMPILATION REPORT

T-12731

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:40,000 scale color photography. Coverage was adequate.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated February, 1974.

33. SUPPLEMENTAL DATA:

None.

34. CONTOURS AND DRAINAGE:

Contours are not applicable to the project. Drainage was delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by the Wild B-8 stereoplotter and by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

36. OFFSHORE DETAILS:

None.

37. LANDMARKS AND AIDS:

None.

38. CONTROL FOR FUTURE SURVEYS:

None.

39. JUNCTIONS:

See the attached Form 76-36b, item #5 of the Descriptive Report concerning junctions.

40. HORIZONTAL AND VERTICAL ACCURACY:

No statement.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: Skagway (A-4), Alaska, 1961, scale 1:63,360 and Skagway (A-3), Alaska, 1954, scale 1:63,360

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following Coast & Geodetic Survey chart: 8202, 17th edition, dated Sept. 11, 1971, scale 1:209,978

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Albert C. Rauck, Jr. For.*  
Charles Parker  
Cartographic Aid  
Dec. 23, 1974

Approved:

*Albert C. Rauck, Jr.*  
Albert C. Rauck  
Chief, Coastal Mapping Section, AMC

July 26, 1977

L 3

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12731

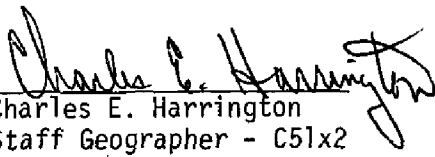
McBride Glacier

Muir Inlet

Wolf Point

Glacier Bay National Monument

Approved by:

  
Charles E. Harrington  
Staff Geographer - C51x2

## REVIEW REPORT

T-12731

## SHORELINE

October 1977

61. GENERAL STATEMENT:

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

No comparison print for this map was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No comparison was made north of Lat.  $59^{\circ}01.3'$ --no registered topographic survey of that area was available. South of Lat.  $59^{\circ}01.3'$  a visual comparison was made with a copy of Survey T-6758, 1:20,000 scale, dated July-August 1940. The face of Muir Glacier fronted approximately half the shoreline in this area in 1940. No significant difference was noted otherwise.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangles SKAGWAY (A-3), ALASKA, 1:63,360 scale, dated 1954; and SKAGWAY (A-4), ALASKA, 1:63,360 scale, dated 1961. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheet for Survey H-9317 (MA-20-3-72). No significant difference was noted.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 17300 (8202), 1:209,978 scale, 20th edition, dated Jan. 1, 1977. Most of the mean high water line on the chart is shown as approximate. All of the mean high water line except approximately 2000 feet across the face of McBride Glacier is mapped as surveyed on T-12731.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets requirements for Bureau Standards and National Standards of Map Accuracy.

Submitted by:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
Oct. 20, 1977

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*D.K. Hayward*

Chief, Photogrammetric Branch

*James C. ...*

Chief, Coastal Mapping Div.