

ORIGINAL

T-12739

T-12739

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-12739*

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

LOCALITY

State *Alaska*

General Locality *Glacier Bay-Muir Inlet*

Locality *Muir Glacier*

1972 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 <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY # <u>12739</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH. 6502</u>	
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr				LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED JOB <u>PH. 6502</u> MAP CLASS <u>III</u> SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED							
1. OFFICE Aerotriangulation 5/18/73 Compilation Supp. II 6/14/73 Final Review 6/03/77				2. FIELD May 5, 1972			
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 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 <u>Alaska</u> ZONE <u>1</u>			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				D. Norman		Feb 1974	
2. CONTROL AND BRIDGE POINTS METHOD: Calcomp				PLOTTED BY R. Robertson		Mar 1974	
				CHECKED BY R. Robertson		Mar 1974	
3. STEREOSCOPIC INSTRUMENT COMPILATION INSTRUMENT: Wild B-8 SCALE: 1:15,000				PLANIMETRY BY L. O. Neterer Jr.		Dec 1974	
				CHECKED BY R. R. White		Dec 1974	
				CONTOURS BY NA			
				CHECKED BY NA			
4. MANUSCRIPT DELINEATION METHOD: Smooth drafting SCALE: 1:10,000				PLANIMETRY BY D. P. Butler		Dec 1974	
				CHECKED BY C. Parker		Jan 1975	
				CONTOURS BY NA			
				CHECKED BY NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY							
6. APPLICATION OF FIELD EDIT DATA BY				None			
				CHECKED BY			
7. COMPILATION SECTION REVIEW BY				None after 4.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. Phillias		Jan 1978	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY				R. T. C. et al		Mar 1978	

NOAA FORM 76-36B
(3-72)

T-12739

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

COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU		(C) COLOR X		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES Muir Inlet		(P) PANCHROMATIC		Pacific	
<input type="checkbox"/> REFERENCE STATION RECORDS		(I) INFRARED		MERIDIAN	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				120th	
				<input checked="" type="checkbox"/> STANDARD	
				<input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(C) 4726 & 4727	7/04/72	13:53	1:30,000	3.0 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-12749	T-12738

REMARKS

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

T-12739

HISTORY OF FIELD OPERATIONS

I. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

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

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*)

None

4. LANDMARKS AND AIDS TO NAVIGATION IDENTIFIED

None

PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT NAME

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

7. SUPPLEMENTAL MAPS AND PLANS

None

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

None

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(3-72)

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12739
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

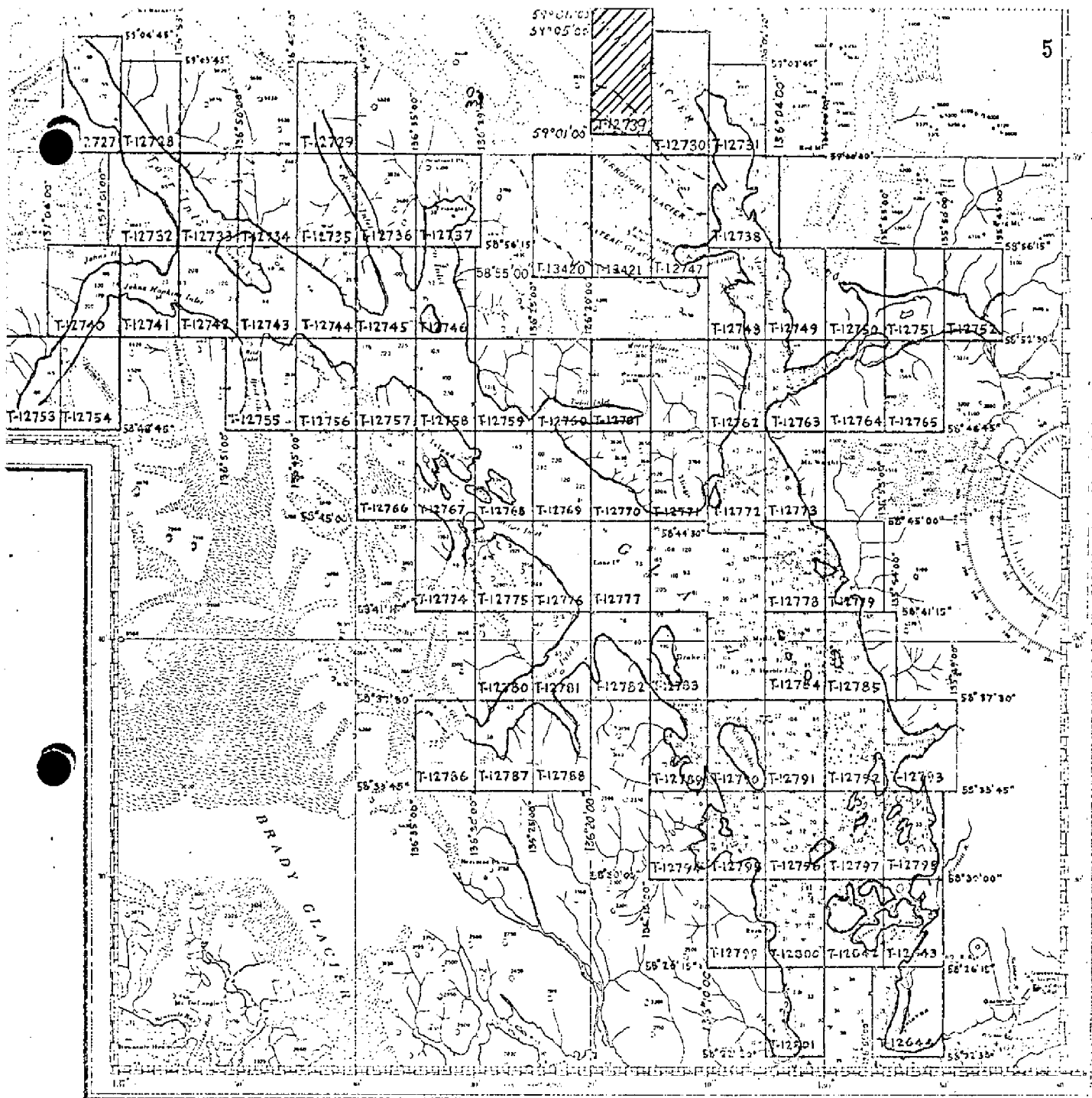
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: _____
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: _____

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	



REVISED 9-5-72 RWW

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12739

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.

No field work was done prior to compilation of this map.

Aerotriangulation was done in Rockville in February 1974.

Compilation was done at the Atlantic Marine Center in December 1974, using 1:30,000 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 five minutes 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

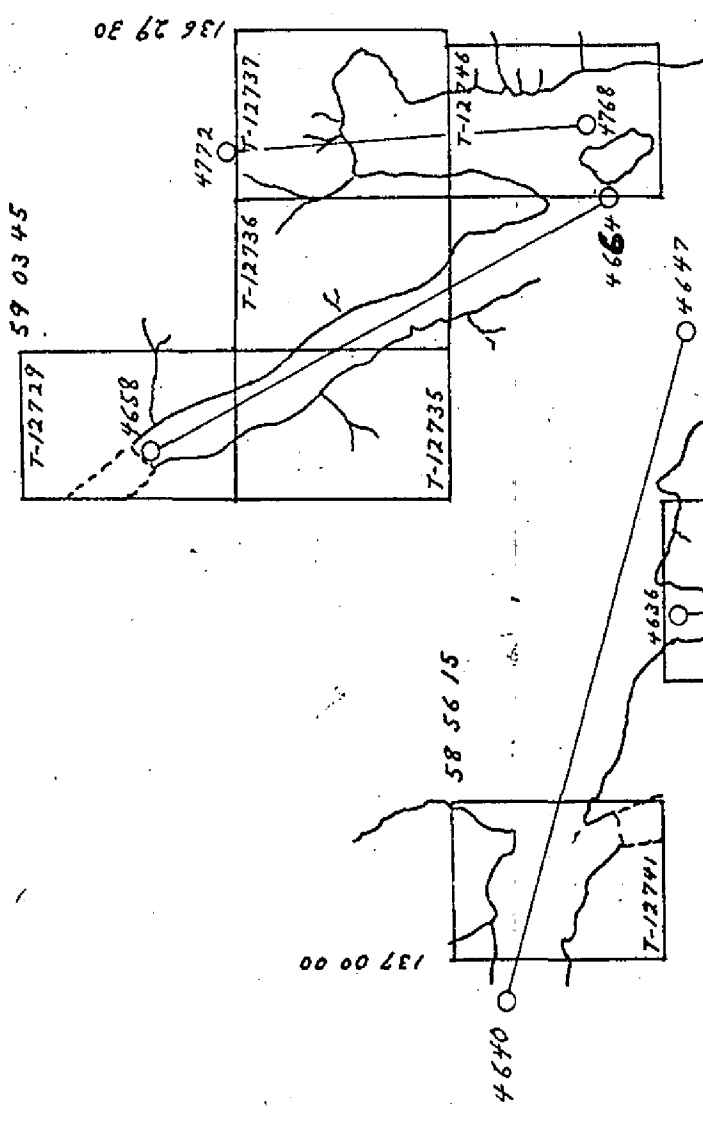
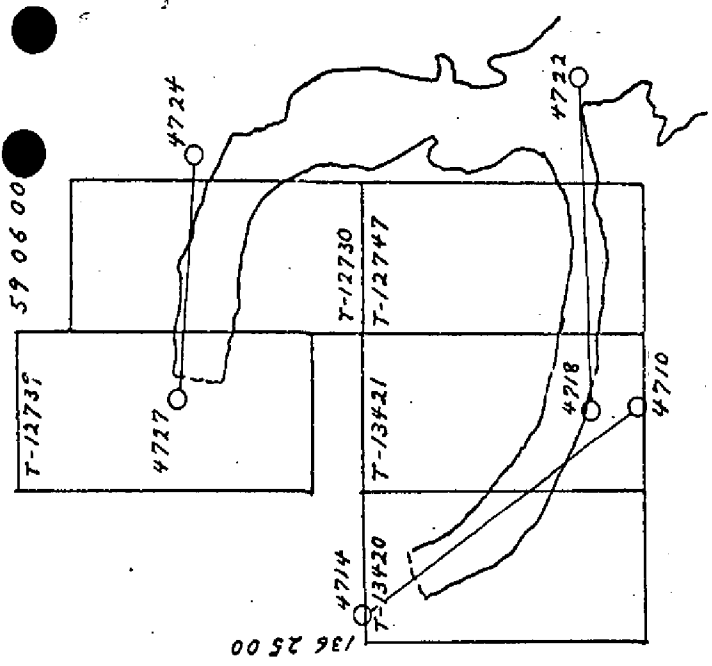
The area is covered by previous photography that was used in bridging and compilation. New control stations were put in and the 1972 photography was flown to cover areas where the glaciers have receded.

Submitted by,

Don O. Norman
Don O. Norman

Approved by:

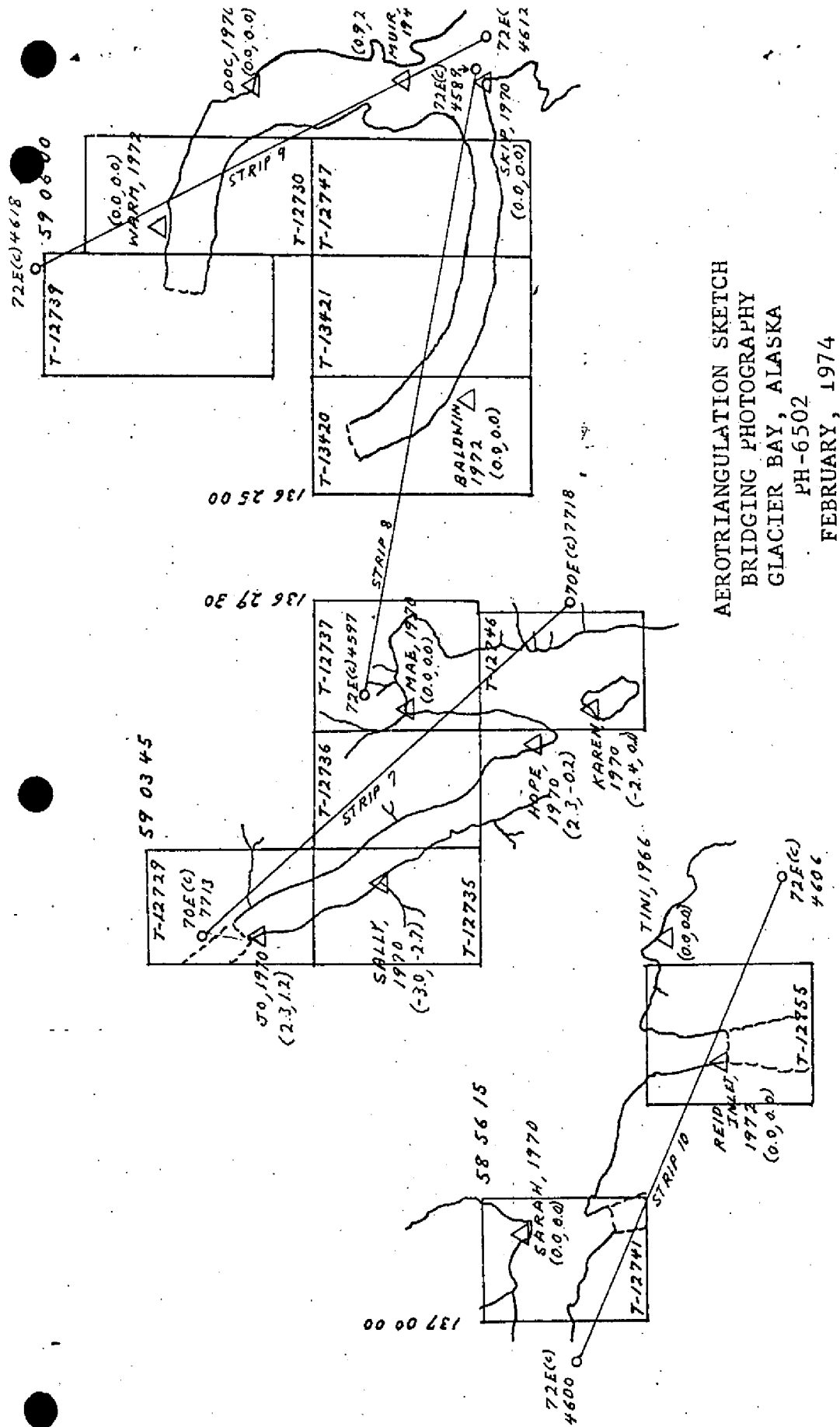
John D. Perrow, Jr.
John D. Perrow, Jr.
Chief, Aerotriangulation Section



AEROTRIANGULATION SKETCH
 COMPILATION PHOTOGRAPHY
 GLACIER BAY, ALASKA

PH-6502
 FEBRUARY, 1974

01:30000 scale 72E color photography



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

01:40000 scale color photography

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO. T-12739	JOB NO. PH-6502	SOURCE OF INFORMATION (Index)	AEROTRI- ANGULATION POINT NUMBER	GEODETIC DATUM		COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Division, Norfolk, Va.	REMARKS	
				NA	1927		ϕ LATITUDE	λ LONGITUDE		FORWARD	BACK
NONE				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
				$x=$			ϕ				
				$y=$			λ				
COMPUTED BY A. C. RAUCK, JR.	DATE 7/31/73	COMPUTATION CHECKED BY Charles Parker						DATE 1/8/75			
LISTED BY	DATE	LISTING CHECKED BY						DATE			
HAND PLOTTING BY	DATE	HAND PLOTTING CHECKED BY						DATE			

COMPILATION REPORT

T-12739

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 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, scale 1:63,360, dated 1961.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following Coast & Geodetic Survey chart: 8202 (N.O. 17043), scale 1:209,978, 17th edition, dated Sept. 11, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

David P. Butler

David P. Butler
Cartographic Aid
Dec. 1974

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

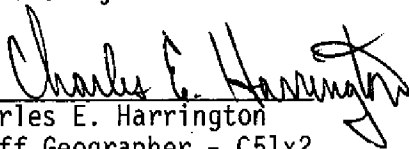
T-12739

Muir Glacier

Muir Inlet

Glacier Bay National Monument

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

PHOTOGRAMMETRIC OFFICE REVIEW

T-12739

1. PROJECTION AND GRIDS CP		2. TITLE CP		3. MANUSCRIPT NUMBERS CP		4. MANUSCRIPT SIZE CP	
CONTROL STATIONS							
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY CP				6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS CP	
8. BENCH MARKS NA		9. PLOTTING OF SEXTANT FIXES NA		10. PHOTOGRAMMETRIC PLOT REPORT CP		11. DETAIL POINTS CP	
ALONGSHORE AREAS (Nautical Chart Data)							
12. SHORELINE CP		13. LOW-WATER LINE CP		14. ROCKS, SHOALS, ETC. CP		15. BRIDGES CP	
16. AIDS TO NAVIGATION CP		17. LANDMARKS CP		18. OTHER ALONGSHORE PHYSICAL FEATURES CP		19. OTHER ALONGSHORE CULTURAL FEATURES CP	
PHYSICAL FEATURES							
20. WATER FEATURES CP				21. NATURAL GROUND COVER CP		22. PLANETABLE CONTOURS CP	
23. STEREOSCOPIC INSTRUMENT CONTOURS CP		24. CONTOURS IN GENERAL CP		25. SPOT ELEVATIONS CP		26. OTHER PHYSICAL FEATURES CP	
CULTURAL FEATURES							
27. ROADS CP		28. BUILDINGS CP		29. RAILROADS CP		30. OTHER CULTURAL FEATURES CP	
BOUNDARIES							
31. BOUNDARY LINES NA				32. PUBLIC LAND LINES NA			
MISCELLANEOUS							
33. GEOGRAPHIC NAMES CP				34. JUNCTIONS CP		35. LEGIBILITY OF THE MANUSCRIPT CP	
36. DISCREPANCY OVERLAY CP		37. DESCRIPTIVE REPORT CP		38. FIELD INSPECTION PHOTOGRAPHS NA		39. FORMS CP	
40. REVIEWED <i>Albert C. Rauck, Jr. for</i> Charles Parker 1/8/75				SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i>			
41. REMARKS (See attached sheet)							
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT							
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.							
COMPILER				SUPERVISOR			
43. REMARKS							

REVIEW REPORT

T-12739

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:

None. No registered topographic survey was available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle SKAGWAY (A-4), **ALASKA**, 1:63,360 scale, dated 1961. No shoreline is shown on the quadrangle in the area compared.

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 except at the face of Muir Glacier. Here, at lat. $59^{\circ}01.9'$, long. $136^{\circ}18.1'$, soundings are approximately 200 meters west (shoreward) of the face of the glacier as mapped on T-12739. Apparently, the glacier receded 200 meters or more between the time of photography and the time of hydrography.

63. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 17300

(8202), 1:209,978 scale, 20th edition, dated Jan. 1, 1977. All shoreline on the chart is indicated as approximate. All shoreline on T-12739, except the face of Muir Glacier at the head of Muir Inlet, is shown as surveyed.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Submitted by:

Charles H. Bishop

Charles H. Bishop
Cartographer
October 20, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. K. Hays

Chief, Photogrammetric Branch

James C. Allen

Chief, Coastal Mapping Div.