

T-12730 ORIGINAL

T-12730

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-12730
Classification No. III Edition No. ...1.....

LOCALITY

State Alaska
General Locality Glacier Bay-Muir Inlet
Locality ..White Thunder Ridge.....

19 72 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 T. <u>12730</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB PH. <u>6502</u>	
DESCRIPTIVE REPORT - DATA RECORD							
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.				LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
OFFICER-IN-CHARGE Jeffrey G. Carlen, Cdr.				JOB PH. _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__			
I. INSTRUCTIONS DATED							
1. OFFICE				2. FIELD			
Aerotriangulation 5/18/73 Compilation Supp. II 6/14/73 Final Review 6/03/77				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 Alaska ZONE 1			
5. SCALE 1:10,000				STATE ZONE			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY D. Norman						Feb 1974	
METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY							
2. CONTROL AND BRIDGE POINTS PLOTTED BY D. Phillips						May 1974	
METHOD: <u>Coradomat</u> CHECKED BY D. Phillips						May 1974	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY L. O. Neterer Jr.						Dec 1974	
COMPILATION CHECKED BY R. R. White						Dec 1974	
INSTRUMENT: Wild B-8				CONTOURS BY NA			
SCALE: 1:15,000				CHECKED BY NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY I. K. Perkinson						Dec 1974	
CHECKED BY C. Parker						Jan 1975	
METHOD: Smooth drafting				CONTOURS BY NA			
SCALE: 1:10,000				CHECKED BY NA			
HYDRO SUPPORT DATA BY							
CHECKED BY							
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY							
6. APPLICATION OF FIELD EDIT DATA BY							
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. Phillips						Jan. 1978	
11. MAP REGISTERED - COASTAL SURVEY SECTION BY R.T. Cater						Mar. 1978	

NOAA FORM 76-36B
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12730
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR X (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU <input checked="" type="checkbox"/> PREDICTED TIDES Muir Inlet <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific MERIDIAN 120th	<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(C) 4725 - 4727	7/04/72	13:53	1:30,000	3.0 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:

Office interpretation of Photo 72E(C) 4726---delta area at foot of McBride Glacier only.

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	T-12731	No survey	No survey

REMARKS

NOAA FORM 76-36C
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEYT-12730
HISTORY OF FIELD OPERATIONSI. ☒ FIELD INSPECTION OPERATION☐ FIELD EDIT OPERATION

OPERATION	NAME	DATE
1. CHIEF OF FIELD PARTY	G.M.P.	Jun 1972
2. HORIZONTAL CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	NA J. G. Birkey (LT.) J. G. Birkey (LT.)
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	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	
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
72E(C) 4617	WARM, 1972		

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)

1 Form 152, Control Station Identification

NOAA FORM 76-36D
(3-72)U. S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-12730
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	12/19/74	Class III		
Final Review prior to registration	10/77	Class III. Minor addition.	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: _____

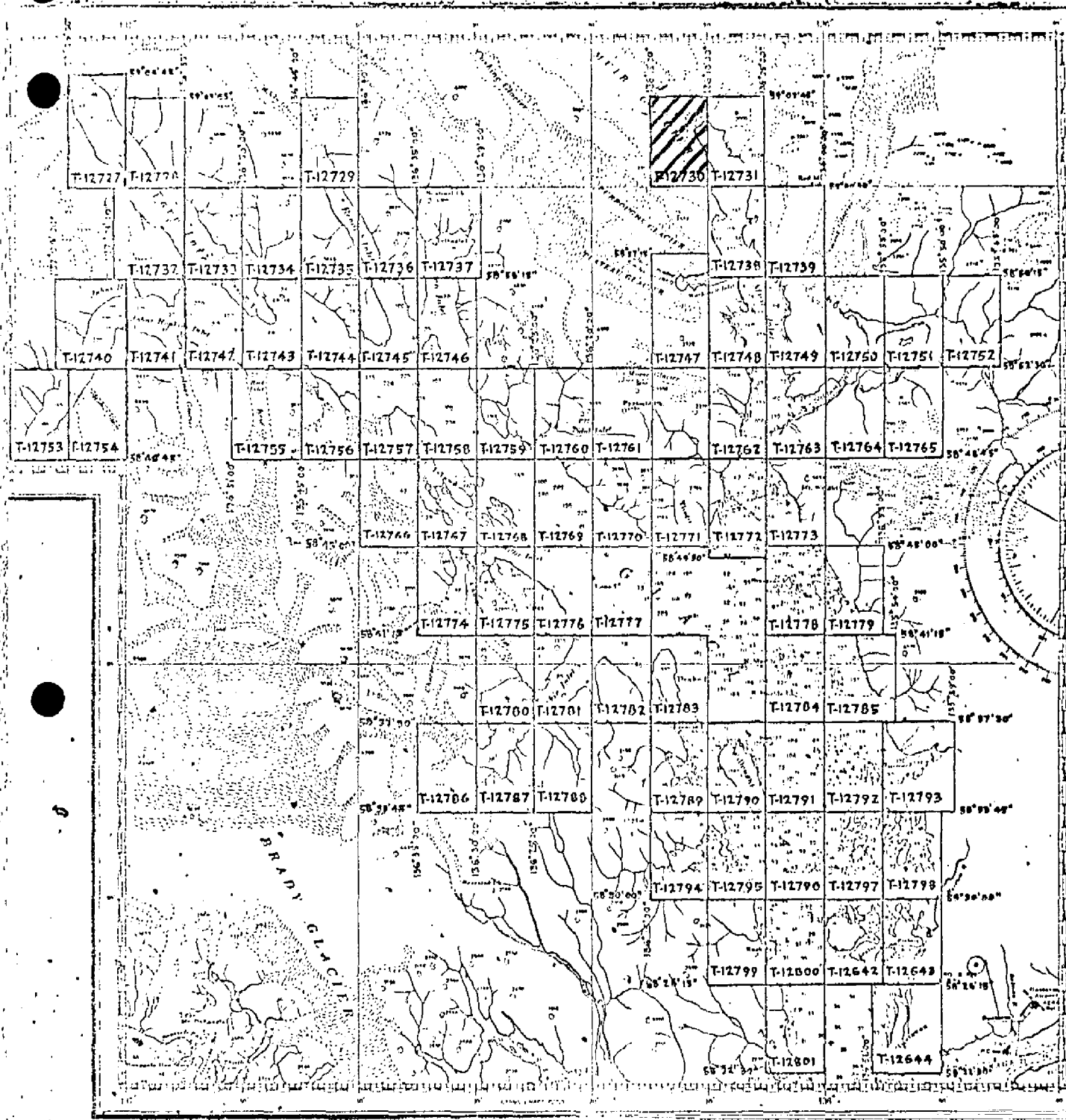
III. FEDERAL RECORDS CENTER DATA

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-12730

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 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 1:30,000 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.

7

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,

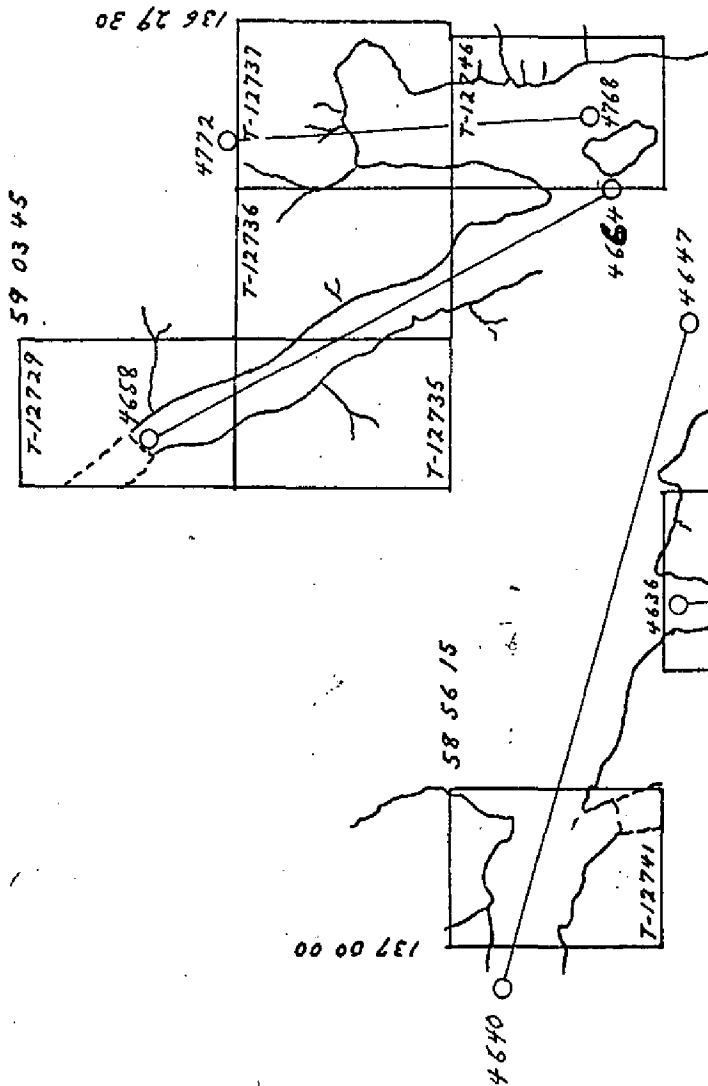
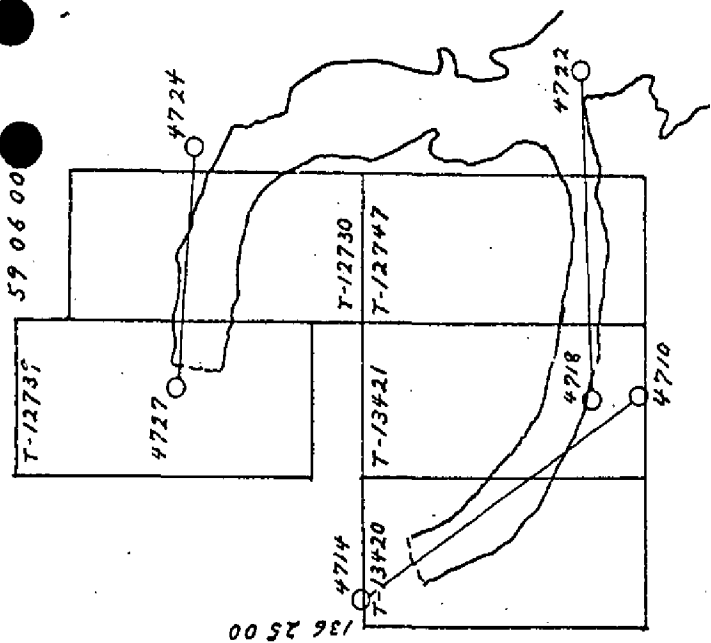
Don O. Norman

Don O. Norman

Approved by:

John D. Perrow, Jr.

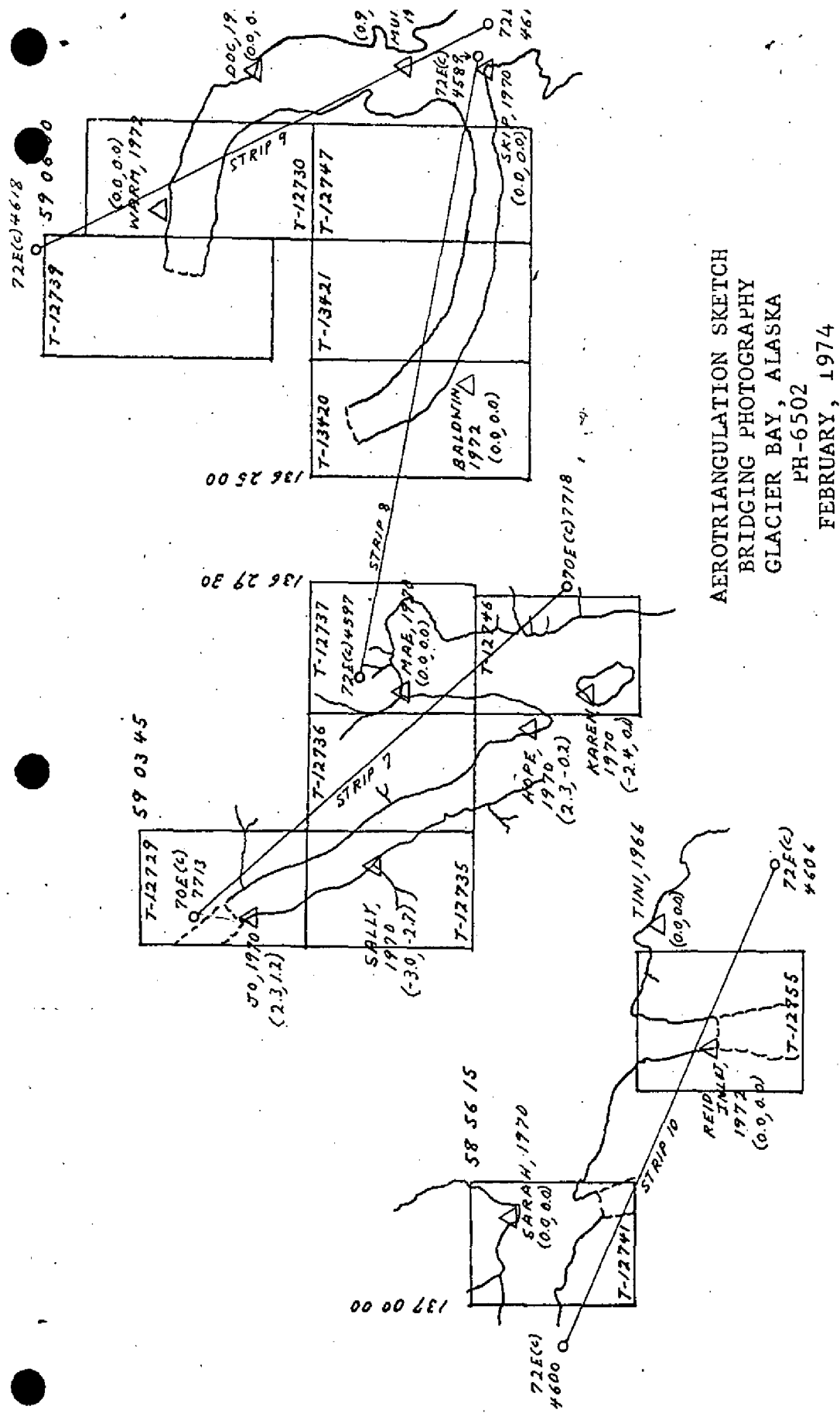
John D. Perrow, Jr.
Chief, Aerotriangulation Section



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-12730

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:

None.

46. COMPARISON WITH EXISTING MAPS:

A comparison has been made with the following USGS Quadrangle: SKAGAY (A-4), Alaska, 1961, scale 1:63,360.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following Coast & Geodetic Survey chart: 8202, Dated Sept. 1971, scale 1:209,978

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:



Irene K. Perkinson
Cartographic Technician
12/19/74

Approved:



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

ADDENDUM TO COMPILATION REPORT

T-12730

During Final Review the mean lower low water line at the west side of McBride Glacier was added. No other corrections or additions were made.

Submitted by:

Charles H. Bishop

Charles H. Bishop
Final Reviewer
October 19. 1977

July 26, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12730

McBride Glacier


Muir Inlet

Riggs Glacier

White Thunder Ridge

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 - 12730			
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 NA		22. PLANETABLE CONTOURS NA
23. STEREOSCOPIC INSTRUMENT CONTOURS NA	24. CONTOURS IN GENERAL NA	25. SPOT ELEVATIONS NA	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 CP	39. FORMS CP
40. REVIEWER <i>Albert C. Rauck, Jr.</i> Charles Parker 1/13/75		SUPERVISOR, REVIEW SECTION OR UNIT <i>Albert C. Rauck, Jr.</i> Albert C. Rauck, Jr.	
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-12730

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 surveys were 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 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 differences were 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. All of the mean high water line except less than a mile across the face of Riggs and McBride Glaciers is mapped on T-12730 as surveyed, rather than Approximate (unsurveyed), as shown on Chart 17300. No other significant difference was noted.

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:

Charles H. Bishop

Charles H. Bishop
Cartographer
Oct. 19, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

D. K. Hargood

Chief, Photogrammetric Branch

Jan C. ...

Chief, Coastal Mapping Div.