

ORIGINAL

T-12729

T-12729

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-12729  
Classification No. III ..... Edition No. 1

### LOCALITY

State ..... Alaska  
General Locality ..... Glacier Bay  
Locality Rendu Inlet, Head of

19 70 TO 19 72

### 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>12729</u> MAP EDITION NO. (1) MAP CLASS III JOB PH- <u>6502</u>	
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 PH- _____ MAP CLASS _____ SURVEY DATES: 19__ TO 19__	

I. INSTRUCTIONS DATED	
1. OFFICE	2. FIELD
Aerotriangulation 1/4/71 Aerotriangulation 5/18/73 Compilation Supp. II 6/14/73 Final Review 6/3/77	February 17, 1970

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 METHOD: Analytic LANDMARKS AND AIDS BY	D. Norman	Feb 1974
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Calcomp. CHECKED BY	R. Robertson	Mar 1974
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY	L. O. Neterer Jr.	Nov 1974
INSTRUMENT: Wild B-8	R. R. White	Nov 1974
SCALE: 1:15,000	NA	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY	Charles Parker	Nov 1974
METHOD: SMOOTH Drafting	J. R. Minton	Jan 1975
SCALE: 1:10,000	NA	
HYDRO SUPPORT DATA BY	NA	
CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	J. R. Minton	Jan 1975
6. APPLICATION OF FIELD EDIT DATA BY	None	
CHECKED BY		
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. Cator	Mar 1978

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

T-12729

## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC8 "E"		TYPES OF PHOTOGRAPHY LEGEND (C) COLOR <input checked="" type="checkbox"/> (P) PANCHROMATIC (I) INFRARED		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU <input checked="" type="checkbox"/> PREDICTED TIDES Composite Island <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
**70E(C) 7713 & 7714	7/27/70	11:56	1:40,000	10.4 ft. above MLLW	
*72 E(C) 4658 & 4659	7/04/72	12:58	1:30,000	3.4 ft. above MLLW	

## REMARKS

\*\*Bridging Photography  
\*Compilation Photography

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

The mean high water line was delineated 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-12735	No survey

## REMARKS

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12729  
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
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 BY <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) 7714	J0, 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, CSI Card

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

T-12729

## 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	Nov 1974	Class III		
Final Review prior to registration	Oct 1974	Class III. No corrections to map detail.	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: \_\_\_\_\_

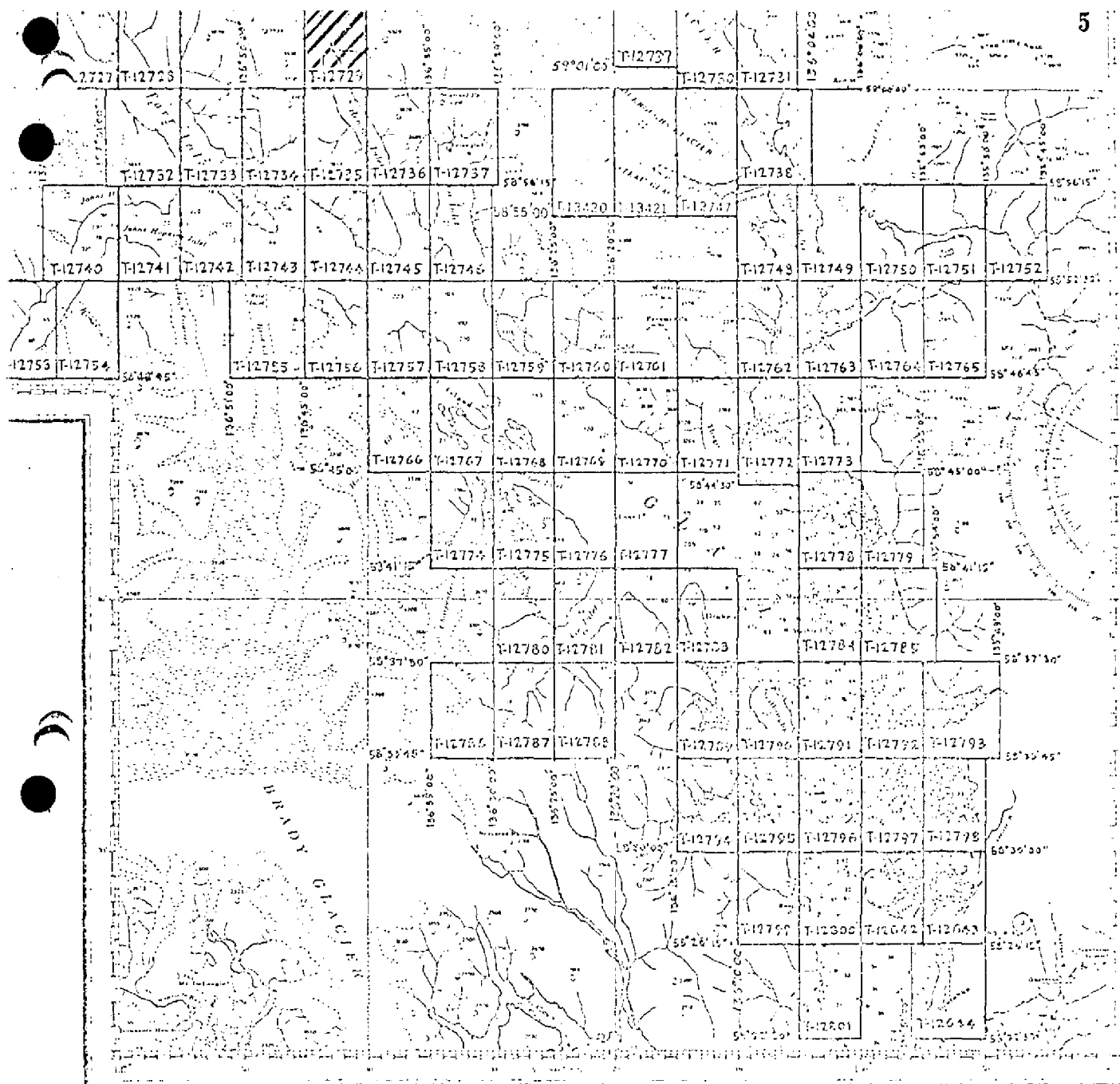
## III. FEDERAL RECORDS CENTER DATA

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 RWH

# JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12729

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 January 1975, 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 Oct. 1977.

The original manuscript was a stabilene sheet 3' 45" in latitude by 5' 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*

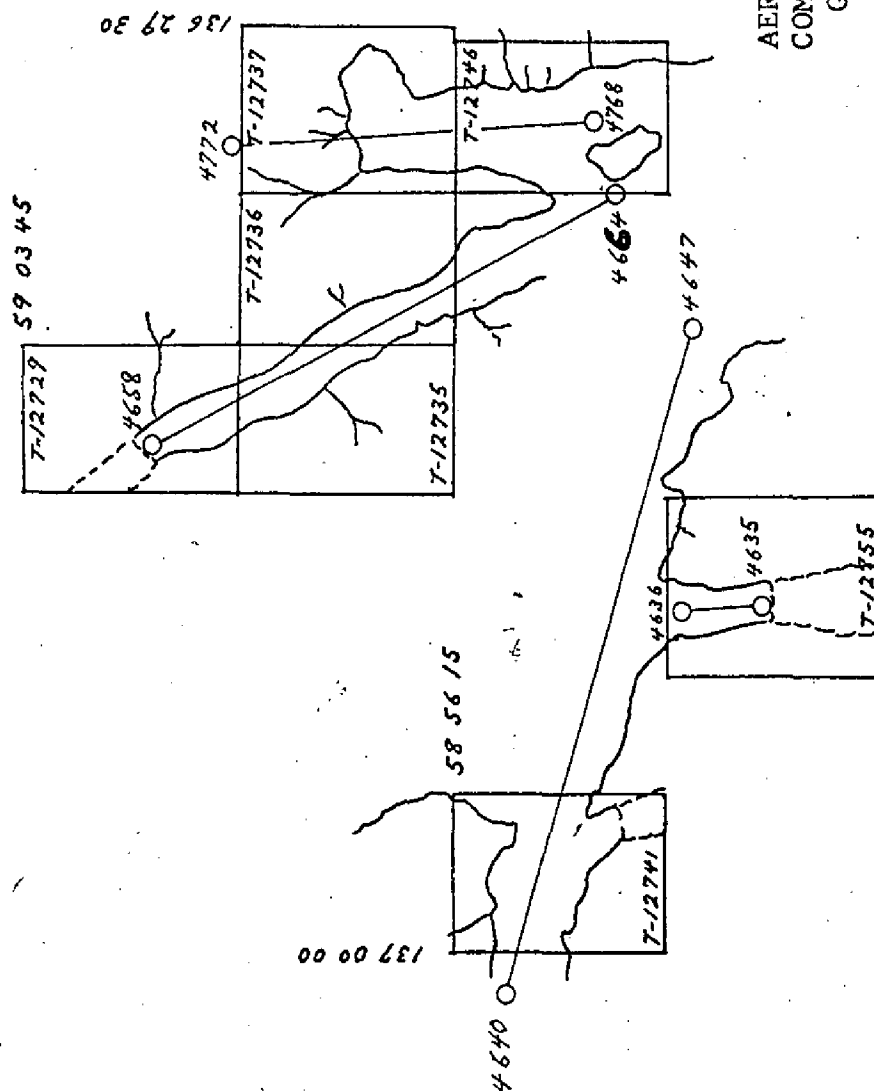
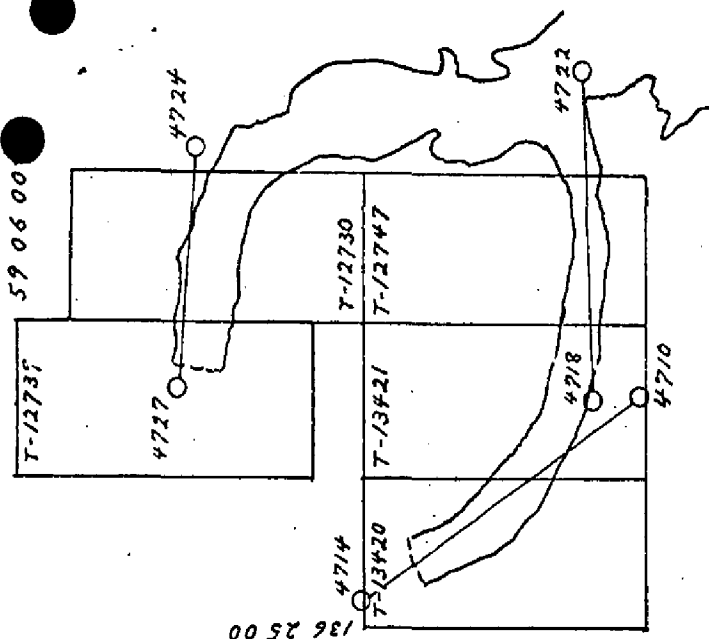
Don O. Norman

Approved by:

*John D. Perrow, Jr.*

John D. Perrow, Jr.  
Chief, Aerotriangulation Section



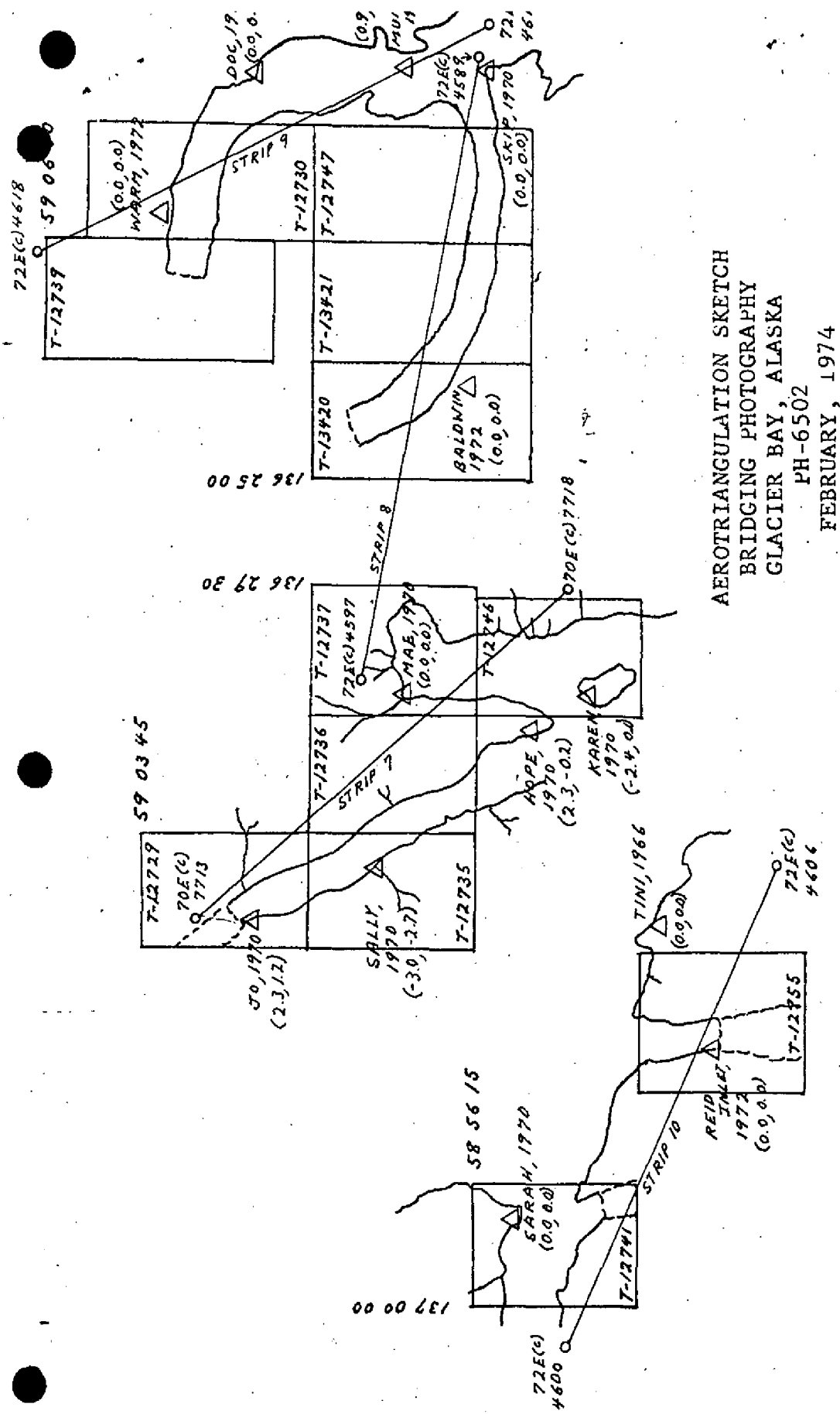


AEROTRIANGULATION SKETCH  
COMPILED PHOTOGRAPHY  
GLACIER BAY, ALASKA

PH-6502

FEBRUARY, 1974

O 1:30000 scale 72E color photography



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

0.1:40000 scale color photography



## COMPILATION REPORT

TP-12729

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using the 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-5) 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, 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:

*Albert C. Rauck, Jr. For*  
Charles Parker  
Cartographic Aid  
11/25/74

Approved:

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

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

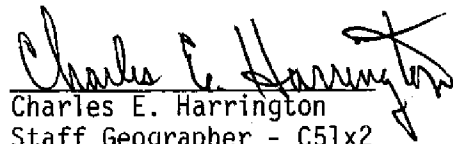
T-12729

Rendu Glacier

Rendu 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 - 12729			
1. PROJECTION AND GRIDS JRM	2. TITLE JRM	3. MANUSCRIPT NUMBERS JRM	4. MANUSCRIPT SIZE JRM
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY JRM	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS JRM
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT JRM	11. DETAIL POINTS JRM
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE JRM	13. LOW-WATER LINE JRM	14. ROCKS, SHOALS, ETC. JRM	15. BRIDGES JRM
16. AIDS TO NAVIGATION JRM	17. LANDMARKS JRM	18. OTHER ALONGSHORE PHYSICAL FEATURES JRM	19. OTHER ALONGSHORE CULTURAL FEATURES JRM
PHYSICAL FEATURES			
20. WATER FEATURES JRM	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 JRM
CULTURAL FEATURES			
27. ROADS JRM	28. BUILDINGS JRM	29. RAILROADS JRM	30. OTHER CULTURAL FEATURES JRM
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES JRM	34. JUNCTIONS JRM		35. LEGIBILITY OF THE MANUSCRIPT JRM
36. DISCREPANCY OVERLAY JRM	37. DESCRIPTIVE REPORT JRM	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS JRM
40. REVIEWER <i>James R. Minton</i> James R. Minton 1/75		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-12729

61. GENERAL STATEMENT:

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

No comparison print was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

None. No prior surveys were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle SKAGWAY (A-5), 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-9141 (FA-20-6-70). 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. No significant differences were noted.

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 4, 1977

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*A. H. [Signature]*

Chief, Photogrammetric Branch

*[Signature]*

Chief, Coastal Mapping Div.