

T-13420 ORIGINAL

T-13420

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-13420 .....

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

### LOCALITY

State ... Alaska .....

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

Locality ... Plateau Glacier .....

1972 TO 19

### REGISTRY IN ARCHIVES

DATE .....

## TYPE OF SURVEY

☒ ORIGINAL☐ RESURVEY☐ REVISEDSURVEY T. 13420

MAP EDITION NO. (1)

MAP CLASS III

JOB PH 502

## 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

☐ ORIGINAL☐ RESURVEY☐ REVISED

JOB PH- \_\_\_\_\_

MAP CLASS \_\_\_\_\_

SURVEY DATES:

19\_\_ TO 19\_\_

## I. INSTRUCTIONS DATED

## 1. OFFICE

Aerotriangulation 5/18/73  
Compilation Supp II 6/14/73  
Final Review 6/3/77

## 2. FIELD

May 5, 1972

## II. DATUMS

## 1. HORIZONTAL:

☒ 1927 NORTH AMERICAN

OTHER (Specify)

## 2. VERTICAL:

☒ MEAN HIGH-WATER  
☐ MEAN LOW-WATER  
☐ MEAN LOWER LOW-WATER  
☐ 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	D. Phillips	May 1974
COMPILATION	CHECKED BY	L. O. Neterer Jr.	Dec 1974
INSTRUMENT: <u>Wild B-8</u>	CONTOURS BY	R. R. White	Dec 1974
SCALE: <u>1:15,000</u>	CHECKED BY	NA	
4. MANUSCRIPT DELINEATION	PLANIMETRY BY	NA	
	CHECKED BY	I. K. Perkinson	Dec 1974
METHOD: <u>Smooth drafting</u>	CONTOURS BY	G. Parker	Jan 1975
	CHECKED BY	NA	
SCALE: <u>1:10,000</u>	HYDRO SUPPORT DATA BY	NA	
	CHECKED BY	NA	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT	BY	NA	
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. Phillips	Dec. 1977
11. MAP REGISTERED - COASTAL SURVEY SECTION	BY	R. T. Catel	MAR 1978

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

T-13420

## 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				ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES Muir Inlet				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
<input type="checkbox"/> REFERENCE STATION RECORDS					
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY					
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(C) 4712 - 4714	7/04/72	13:45	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	T-13421	No survey	No survey
REMARKS			

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

T-13420

## HISTORY OF FIELD OPERATIONS

I. ☒ 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	S.D.W. S.D.W. S.D.W.
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) 4593	BALDWIN, 1972		

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: ☐ 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 76-36C  
(3-72)

NOAA FORM 76-36D  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATIONT-13420  
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. 21, 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-13420

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,

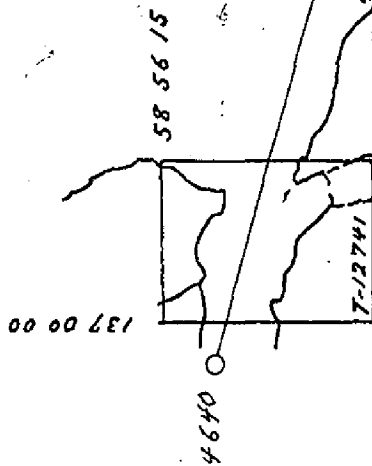
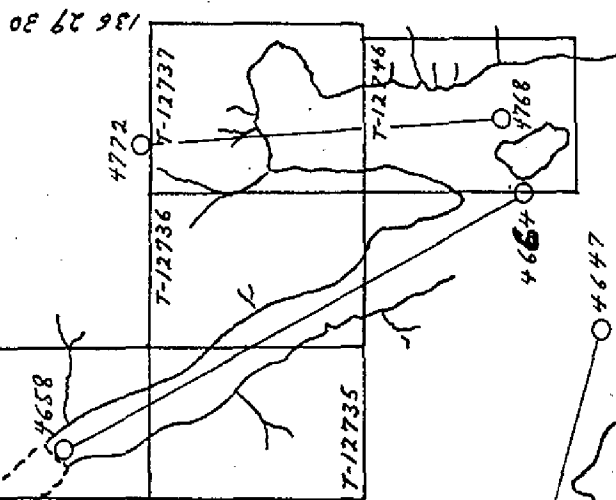
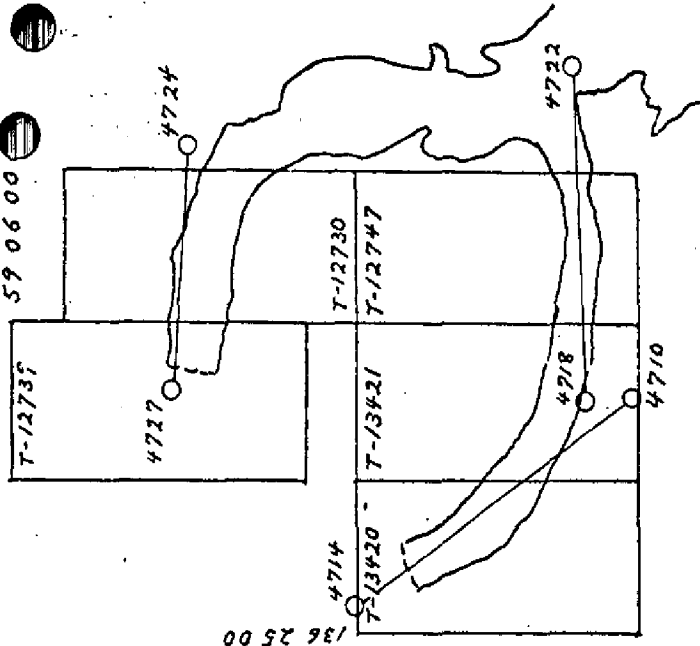
*Don O. Norman*

Don O. Norman

Approved by:

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

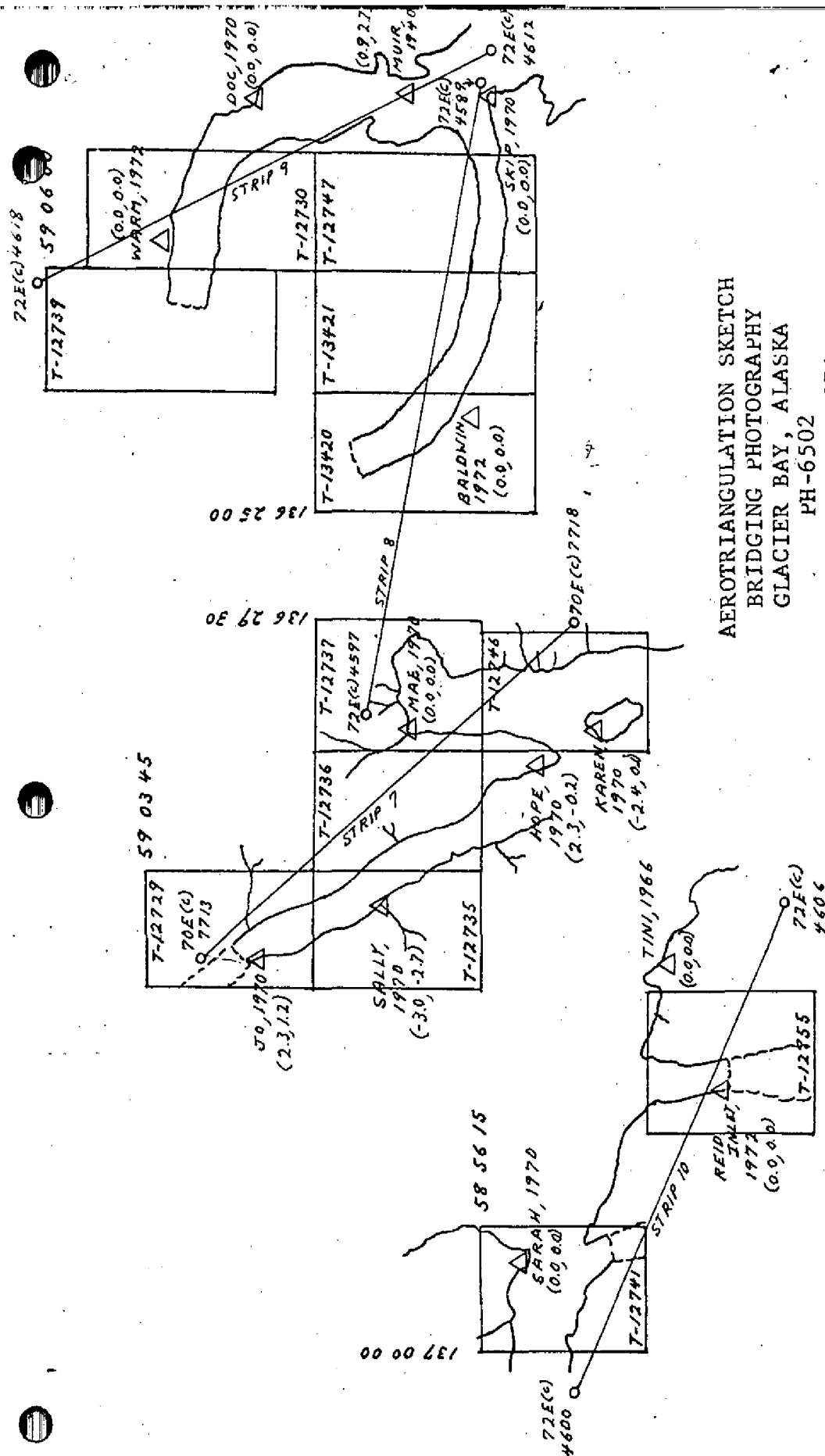




AEROTRIANGULATION SKETCH  
 COMPILATION PHOTOGRAPHY  
 GLACIER BAY, ALASKA

PH-6502  
 FEBRUARY, 1974

01:30000 scale 72E color photography



01:40000 scale color photography

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	GEODETTIC DATUM		AEROTRI- ANGULATION POINT NUMBER	SOURCE OF INFORMATION (Index)	COORDINATES IN FEET		GEOGRAPHIC POSITION		REMARKS
			STATE	ZONE			STATE	ZONE	$\phi$ LATITUDE	$\lambda$ LONGITUDE	
T-13420	BALDWIN, 1972	PH-6502	NA	1927		Bridge form 164 pg. 1	X= 2,177,511.33 ft.		$\phi$		2,511.33 (2,488.67)
							Y= 2,607,348.55 ft.		$\lambda$		2,348.55 (2,651.45)
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## COMPILATION REPORT

T-13420

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: MT. FAIRWEATHER (D-2), ALASKA, dated 1948, 1:63,360 scale.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following National Ocean 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.

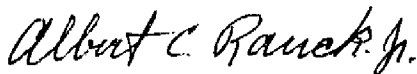
Submitted by:



Irene K. Perkinson  
Cartographic Technician

Dec. 20, 1974

Approved:



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

GEOGRAPHIC NAMES

FINAL NAMES SHEET

PH-6502 (Glacier Bay, Alaska)

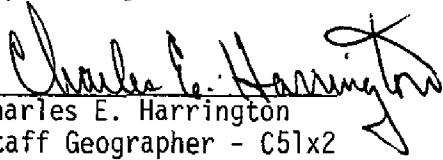
T-13420

Plateau Glacier

Wachusett 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 - 13420

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 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 NA	39. FORMS CP
40. REVIEWER <i>Albert C. Rauck, Jr. FOR</i> Charles Parker 1/10/75		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-13420

## 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 surveys were available for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MT. FAIRWEATHER (D-2), ALASKA, 1:63,360 scale, dated 1948, with minor revisions in 1965. Plateau Glacier has receded approximately two miles further than is indicated on the quadrangle. No other significant difference was noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the verified smooth sheet for Survey H-9317 (MA20-3-72). 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. All of the shoreline on the chart in the area compared is shown as approximate. All of the shoreline (MHWL) except the face of Plateau Glacier at the head of Wachusett Inlet, is mapped as a surveyed line on T-13420.



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:

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Oct. 20, 1977

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