

T-12747

ORIGINAL

T-12747

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-12747.....  
Classification No. III Edition No. 1.....

### LOCALITY

State ... Alaska.....  
General Locality Glacier Bay-Muir Inlet.....  
Locality Wachusett Inlet East.....

1972 TO 1972

### REGISTRY IN ARCHIVES

DATE .....

NOAA FORM 76-36A (3-72)		U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		TYPE OF SURVEY		SURVEY T <u>.12747</u>	
DESCRIPTIVE REPORT - DATA RECORD				<input checked="" type="checkbox"/> ORIGINAL		MAP EDITION NO. (1)	
				<input type="checkbox"/> RESURVEY		MAP CLASS III	
				<input type="checkbox"/> REVISED		JOB PH- <u>6502</u>	
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va.				LAST PRECEDING MAP EDITION			
OFFICER-IN-CHARGE  Jeffrey G. Carlen, CDR				TYPE OF SURVEY		JOB PH- _____	
				<input type="checkbox"/> ORIGINAL		MAP CLASS _____	
				<input type="checkbox"/> RESURVEY		SURVEY DATES:	
				<input type="checkbox"/> REVISED		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 METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY				D. Norman		Feb 1974	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY				D. Phillips		May 1974	
				D. Phillips		May 1974	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				L. O. Neterer		Dec 1974	
INSTRUMENT: <u>Wild B-8</u>				R. White		Dec 1974	
SCALE: <u>1:15,000</u>				NA			
				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				J. Desch		Dec 1974	
				C. Parker		Jan 1975	
METHOD: <u>Smooth drafting</u>				NA			
				NA			
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY				NA			
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY							
6. APPLICATION OF FIELD EDIT DATA 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. Carter		Mar 1978	

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12747  
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	<input checked="" type="checkbox"/> STANDARD
			MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT

NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE
72E(C) 4719-4720	7/4/72	13:45	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 photos 72E(C) 4719 and 4720.

## 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
T-12730	T-12748 T-12738	No survey	T-13421

REMARKS

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

T-12747

## 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

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

T-12747

## 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. MLLWL & Shoreline 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

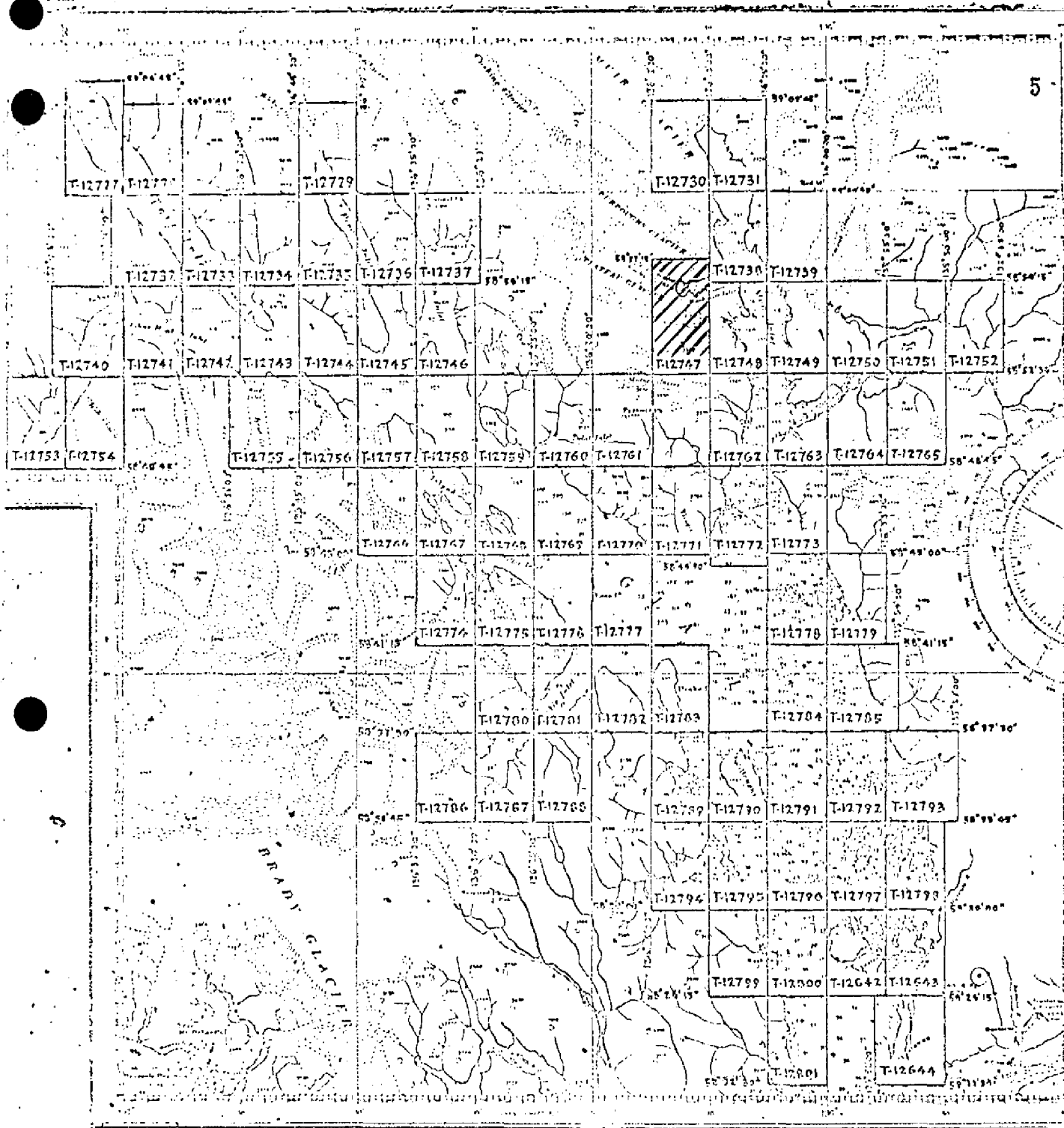
2. ☐ REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: \_\_\_\_\_
3. ☐ REPORT TO AERONAUTICAL CHART DIVISION, AERONAUTICAL DATA SECTION. DATE FORWARDED: \_\_\_\_\_

## 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-12747

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.

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. See Addendum to Compilation Report for corrections and additions made.

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 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,

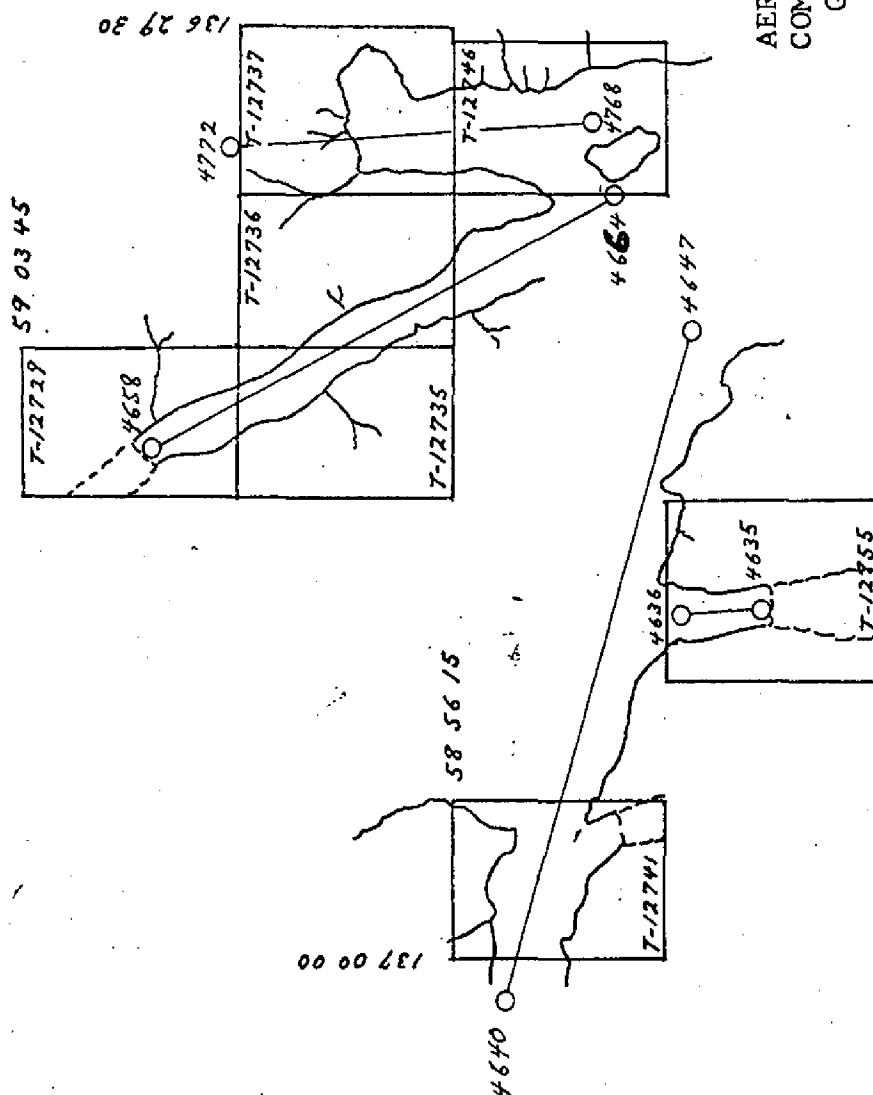
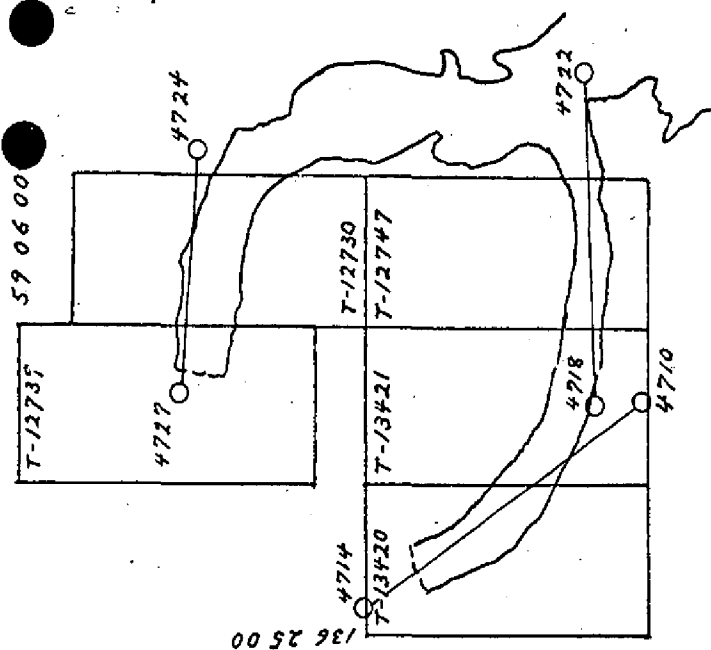
*Don O. Norman*

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



## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.		JOB NO.		GEODEIC DATUM		ORIGINATING ACTIVITY		REMARKS	
T-12747		PH-6502		NA 1927		Division, Norfolk, Va.		Coastal Mapping	
STATION NAME		SOURCE OF INFORMATION (Index)		COORDINATES IN FEET STATE Alaska ZONE 1		GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE		FORWARD BACK	
				AEROTRI- ANGULATION POINT NUMBER					
NONE						$\phi$			
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## COMPILATION REPORT

T-12747

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: MT. FAIRWEATHER(D-1), ALASKA,  
scale 1:63,360; dated 1948, revised 1963.

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 September 11, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Joanne Desch*

Joanne Desch  
Cartographic Aid  
Dec. 30, 1974

Approved:

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

## ADDENDUM TO COMPILATION REPORT

T-12747

During final review, mean lower low water line visible on the photographs was added to the manuscript on the north shore between long.  $136^{\circ}12.3'$  and long.  $136^{\circ}14.5'$ , and on the south shore between long.  $136^{\circ}11.2'$  and the west edge of the map.

Mean high water line at the vicinity of lat.  $58^{\circ}56.1'$ , long.  $136^{\circ}13'$ , at the end of an island, was corrected.

A rock, visible on the photographs but not located on hydrographic Survey H-9317, at lat.  $58^{\circ}55.6'$ , long.  $136^{\circ}11.95'$  was added to the manuscript.

Submitted by:

*Charles H. Bishop*

Charles H. Bishop  
Final Reviewer  
October 25, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

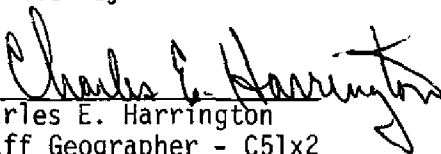
PH-6502 (Glacier Bay, Alaska)

T-12747

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 - 12747

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 CP	39. FORMS CP
40. REVIEWER <i>Albert C. Rauck, Jr.</i> FOR Charles Parker 1/14/75		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-12747

## 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:

East of long.  $136^{\circ}13'$ , a visual comparison was made with a copy of Survey T-6758, 1:20,000 scale, dated July-August 1940. No significant difference was noted. There is no registered topographic survey coverage west of long.  $136^{\circ}13'$ .

In the area compared, T-12747 supersedes T-6758 for nautical chart construction purposes. T-6758 is the latest registered prior survey of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MT. FAIRWEATHER (D-1), ALASKA, 1:63,360 scale, dated 1948, with minor revisions in 1963. Recession of Plateau Glacier has changed the shoreline on the north side of Wachusett Inlet. 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 (MA-20-3-72).

On the north shore at long.  $136^{\circ}11'$  and eastward, identification on the photographs of offshore features mapped on H-9317 is doubtful, and therefore, they are not mapped on T-12747.

Rocks shown on H-9317 in the vicinity of lat.  $58^{\circ}56.0'$ , long.  $136^{\circ}12.7'$  are visible on Photographs 72E(C) 4719 and 4720 and were mapped on T-12747 during final review. The mean lower low water line was added from the vicinity of long.  $136^{\circ}11'$  westward.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 17300 (8202), 1:209,978 scale, 20th edition, dated Jan. 1, 1977. Shoreline that is shown as approximate on the chart is shown as surveyed shoreline on T-12747. There are no other significant differences.

#### 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  
October 25, 1977

Approved for forwarding:

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