

T-12801

T-12801

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-12801 .....

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

## LOCALITY

State ... Alaska .....

General Locality ... Glacier Bay .....

Locality ... Point Carolus .....

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1964 TO 1972

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## 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.  OFFICER-IN-CHARGE  Jeffrey G. Carlen, CDR		SURVEY <u>T-12801</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH.</u> <u>6502</u>	
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.</u> <u>        </u> MAP CLASS <u>        </u> SURVEY DATES: 19 <u>    </u> TO 19 <u>    </u>	
<b>I. INSTRUCTIONS DATED</b>			
1. OFFICE		2. FIELD	
Aerotriangulation May 18, 1973 Compilation-Supp. II June 14, 1973 Final Review June 03, 1977		February 17, 1970	
<b>II. DATUMS</b>			
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>        </u> ZONE <u>        </u>	
<b>III. HISTORY OF OFFICE OPERATIONS</b>			
OPERATIONS		NAME	DATE
1. AEROTRIANGULATION BY METHOD: <u>Analytic</u> LANDMARKS AND AIDS BY		<u>D. O. Norman</u>	<u>Jul 1973</u>
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: <u>Coradomat</u> CHECKED BY		<u>Allen</u> <u>Allen</u>	<u>Jun 1973</u> <u>Jun 1973</u>
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY		<u>L. B. Foltz</u> <u>R. R. White</u>	<u>Sep 1973</u> <u>Sep 1973</u>
INSTRUMENT: <u>Wild B-8</u> CONTOURS BY SCALE: <u>1:15,000</u> CHECKED BY		<u>NA</u> <u>NA</u>	
4. MANUSCRIPT DELINEATION PLANIMETRY BY CHECKED BY		<u>L. B. Foltz</u> <u>R. R. White</u>	<u>Sep 1973</u> <u>Sep 1973</u>
METHOD: <u>Smooth Drafting</u> CONTOURS BY CHECKED BY		<u>NA</u> <u>NA</u>	
SCALE: <u>1:10,000</u> HYDRO SUPPORT DATA BY CHECKED BY		<u>L. B. Foltz</u> <u>R. R. White</u>	<u>Sep 1973</u> <u>Sep 1973</u>
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		<u>R. R. White</u>	<u>Sep 1973</u>
6. APPLICATION OF FIELD EDIT DATA BY CHECKED BY		<u>None</u>	
7. COMPILATION SECTION REVIEW BY		<u>None after 5 above</u>	
8. FINAL REVIEW BY		<u>C. H. Bishop</u>	<u>Sep 1977</u>
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		<u>C. H. Bishop</u>	<u>Dec 1977</u>
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		<u>d. B. Phillips</u>	<u>Dec. 1977</u>
11. MAP REGISTERED - COASTAL SURVEY SECTION BY		<u>R. T. Cator</u>	<u>Mar. 1978</u>

NOAA FORM 76-36B  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12801  
COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 "E" & RC 9 "M"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU		(C) COLOR X (P) PANCHROMATIC (I) INFRARED		ZONE Pacific	<input checked="" type="checkbox"/> STANDARD
<input checked="" type="checkbox"/> PREDICTED TIDES Bartlett Cove <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				MERIDIAN 120th	<input type="checkbox"/> DAYLIGHT
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(c) 4876, 4877	7/4/73	15:38	1:30,000	6.1 ft. above MLLW	
72E(c) 4880-4882	7/4/73	15:45	1:30,000	6.3 ft. above MLLW	
64M(P) 3635-3638	6/12/64	09:24	1:40,000	4.0 ft. below MLLW	

REMARKS

## 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:

Office interpretation of the 1972 color photography with frequent comparison with the 1964 panchromatic photography.

## 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-12800	No survey	No contemporary survey	No survey

REMARKS

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEYT-12801  
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 Lt. Birkey	Jun 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY Lt. Birkey	Jun 1972
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 BY	
	<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)4880	CARO, 1923		

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

NOAA FORM 76-36D  
(3-72)

T-12801

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

## 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	Sept. 1975	Class III		
Final Review prior to registration	Sept 1977	Class III--MHWL Cor- rection SW of Pt. Car- olus; MLLWL added; kelp limit revised.	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	

NOAA FORM 76-36D

REVISED 9-5-72 RWH/

JOB PH-6502  
GLACIER BAY  
ALASKA

## Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12801

This 1:10,000 scale shoreline survey is one of 80 maps that comprise Project PH-6502, Glacier Bay, Alaska. The job diagram shows its location in the project.

There was no field inspection or field edit for this map.

Compilation was done at the Atlantic Marine Center in September 1973 and is from office interpretation of the photographs only.

Final review was done at the Atlantic Marine Center in September 1977. Corrections were made to the mean high water line and kelp limits. The approximate mean lower low water line was added.

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.

GLACIER BAY, ALASKA  
Southern Part  
Job PH-6502  
July 1973

21. Area Covered. This report pertains to twenty-two sheets in the southern part of Glacier Bay, Alaska. The sheets covered are T-12773, T-12778, T-12779, T-12783 thru T-12785, T-12789 thru T-12801, and T-12642 thru T-12644.

22. Method. Five strips of RC-8 photography at 1:40,000 scale were bridged by analytic aerotriangulation methods and adjusted to ground using Alaska state plane coordinates, zone 1. Points were established for setting 1:30,000 scale compilation photography. Points were also established for determining ratios of this photography. These points were plotted by the Coradomat.

23. Adequacy of Control. The control was adequate.

24. Supplemental Data. USGS topographic quadrangles were used in determining elevations for strip adjustments.

25. Photography. The photography was adequate; however, points could not be established for the compilation of islands on sheets T-12784, T-12791, and T-12796. These islands will have to be put in by a field party.

Submitted by,

*Don O. Norman*

Don O. Norman

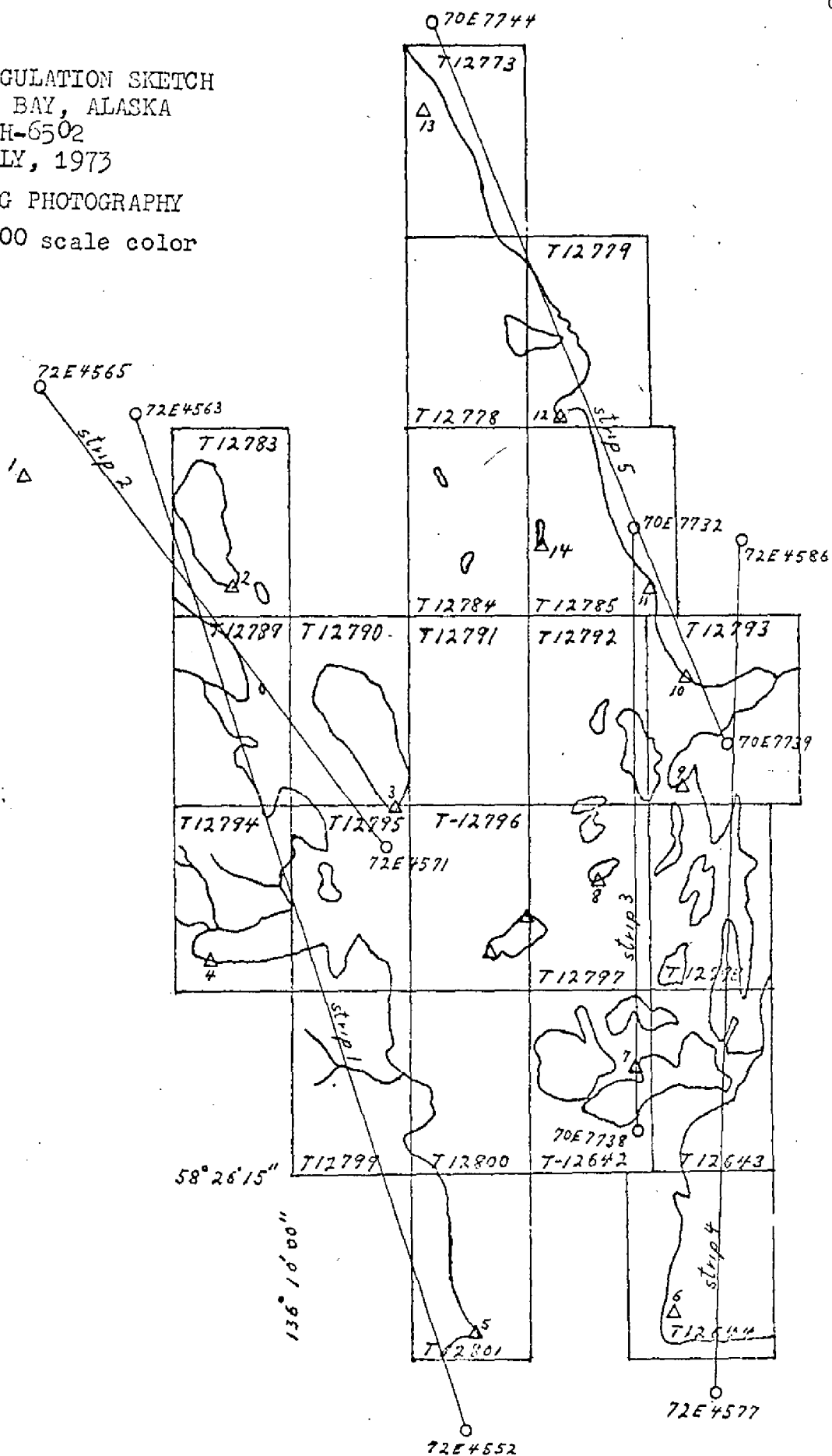
approved by:

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



AEROTRIANGULATION SKETCH  
GLACIER BAY, ALASKA  
PH-6502  
JULY, 1973

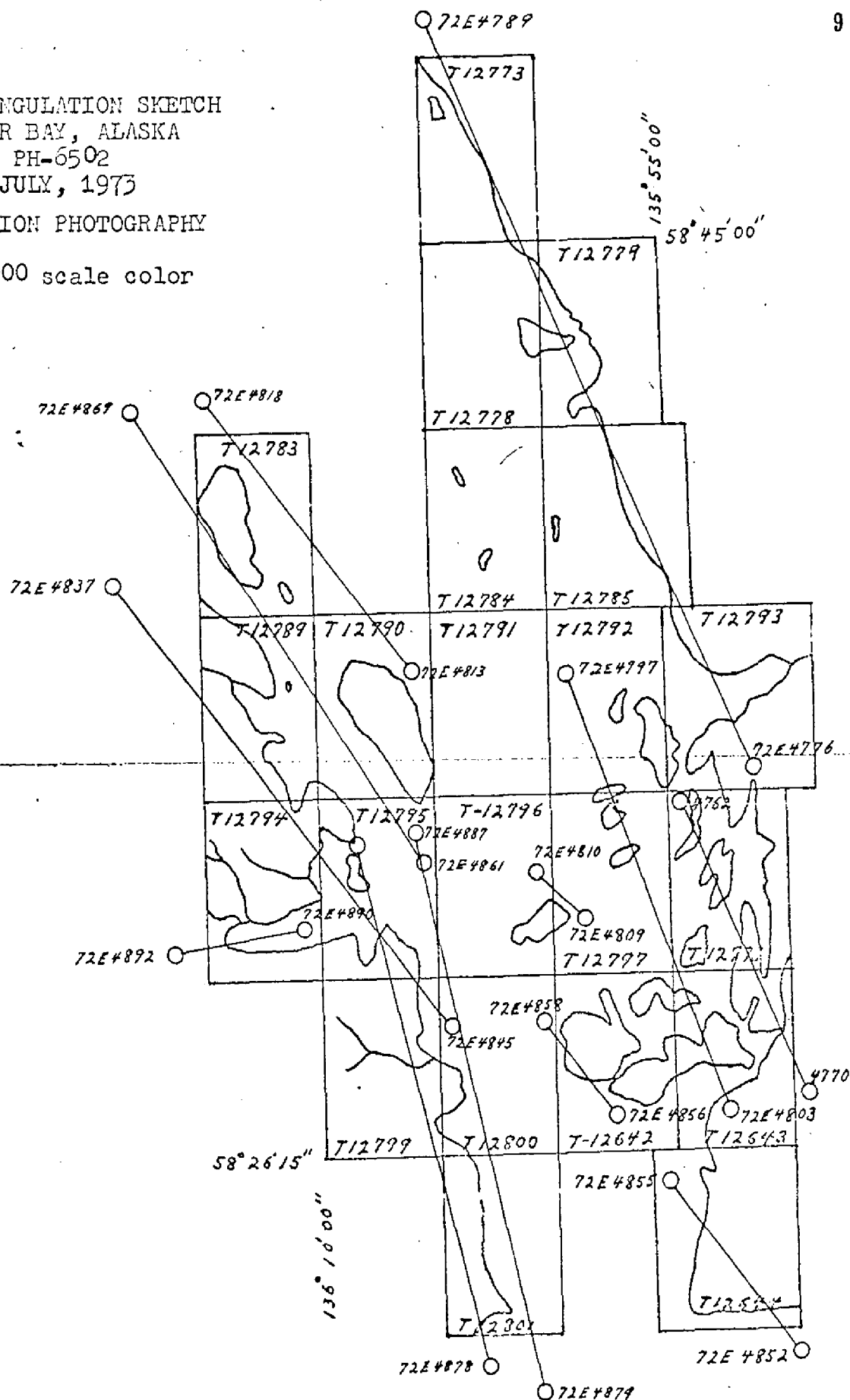
BRIDGING PHOTOGRAPHY  
o1:40000 scale color



AEROTRIANGULATION SKETCH  
GLACIER BAY, ALASKA  
PH-6502  
JULY, 1973

COMPILATION PHOTOGRAPHY

01:30000 scale color



GLACIER BAY  
Southern Part  
Fit to Control

## Strip 1

5 CARO, 1923 (+0.4, -0.4)  
4 JILL, 1938 (-0.8, +2.2)  
2 OPEN, 1939 (+2.1, -2.6)  
1 RIDGE, 1939 (-1.8, +0.8)

## Strip 2

1 RIDGE, 1939 (0.0, 0.0)  
2 OPEN, 1939 (0.0, 0.0)  
3 STAR, 1938 (0.0, 0.0)

## Strip 3

11 GOAT, 1938 (-0.3, -2.6)  
10 CANT, 1939 (+1.9, +2.8)  
9 VEGA, 1939 (+1.2, +0.5)  
8 SOCK, 1938 (-3.5, -1.9)  
7 NAME, 1938 (+0.6, +1.2)

## Strip 4

6 STAVE, 1938 (+1.5, -1.3)  
773802 (-6.2, +2.7)  
736801 (+3.4, -2.0)  
9 VEGA, 1939 (+3.3, +0.3)  
733802 (-2.0, +0.3)

## Strip 5

9 VEGA, 1939 (-0.4, -0.8)  
10 CANT, 1939 (-0.1, +2.3)  
11 GOAT, 1939 (-2.3, -0.2)  
14 LITE, 1939 (-0.5, -2.8)  
12 EARL, 1970 (+3.0, +1.8)  
13 SNOWWHITE, 1970 (-0.5, -0.1)



## COMPILATION REPORT

T-12801

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 color photography. Photo coverage was adequate. There was no field inspection prior to compilation.

32. CONTROL:

See the attached Photogrammetric Plot Report, dated July, 1973.

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 (B-1) Alaska, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following Coast & Geodetic Survey chart: 8202, scale 1:209,978 15th edition, Oct. 21, 1968.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Albert C. Rauck, Jr. For*  
L. B. Foltz  
Cartographic Aid  
Sept. 26, 1973

Approved:

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

## ADDENDUM TO COMPILATION REPORT

T-12801

The mean lower low water line was added during Final Review. This line was determined by a comparison of the 1964 photography, taken at a predicted tide stage of 4.0 feet below MLLW, with the 1972 photography, taken at a predicted tide stage of 6.1 feet above MLLW. Kelp limits were revised. The mean high water line was corrected southwest of Pt. Carolus.

Several rock awash symbols were removed from the 1973 compilation because they are boulders apparently no different than many other boulders in the foreshore area, which is labeled "G and Bld".

Submitted by:

*Charles H. Bishop*

Charles H. Bishop  
Final Reviewer  
Sept. 22, 1977

July 26, 1977

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GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

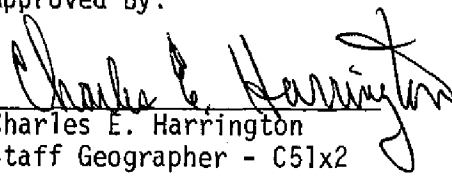
T-12801

Glacier Bay

Point Carolus

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 - 12801			
1. PROJECTION AND GRIDS RRW	2. TITLE RRW	3. MANUSCRIPT NUMBERS RRW	4. MANUSCRIPT SIZE RRW
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY RRW	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) RRW		7. PHOTO HYDRO STATIONS RRW
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT RRW	11. DETAIL POINTS RRW
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE RRW	13. LOW-WATER LINE RRW	14. ROCKS, SHOALS, ETC. RRW	15. BRIDGES RRW
16. AIDS TO NAVIGATION RRW	17. LANDMARKS RRW	18. OTHER ALONGSHORE PHYSICAL FEATURES RRW	19. OTHER ALONGSHORE CULTURAL FEATURES RRW
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES RRW		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 RRW
<b>CULTURAL FEATURES</b>			
27. ROADS RRW	28. BUILDINGS RRW	29. RAILROADS RRW	30. OTHER CULTURAL FEATURES RRW
<b>BOUNDARIES</b>			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES RRW		34. JUNCTIONS RRW	35. LEGIBILITY OF THE MANUSCRIPT RRW
36. DISCREPANCY OVERLAY RRW	37. DESCRIPTIVE REPORT RRW	38. FIELD INSPECTION PHOTOGRAPHS RRW	39. FORMS RRW
40. REVIEWER <i>Richard H. White</i> Richard White 9/27/73		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-12801

SHORELINE

September 1977

61. GENERAL STATEMENT:

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

No comparison print was made.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with a copy of Survey T-6629, 1:20,000 scale, dated July 1938, and a copy of T-6627, 1:20,000 scale dated June-July 1938. The entire shoreline on the prior surveys is inshore from the shoreline on T-12801. No other significant differences were noted.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with USGS Quadrangle MT. FAIRWEATHER (B-1), ALASKA, 1:63,360 scale, dated 1948, with minor revisions in 1966. No significant difference was noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None - no contemporary hydrographic survey was available for comparison.

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 difference was noted. The chart scale is too small for adequate comparison.

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:

*Charles H. Bishop*

Charles H. Bishop  
Cartographer  
Sept. 22, 1977

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*D. K. Hingwood*

Chief, Photogrammetric Branch

*James C. Allen*

Chief, Coastal Mapping Div.