

T-12796

T-12796

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-12796 .....

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

## LOCALITY

State ... Alaska .....

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

Locality ... Strawberry Island .....

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19 64 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.		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED		SURVEY T - <u>12796</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH- 6502</u>	
DESCRIPTIVE REPORT - DATA RECORD				LAST PRECEDING MAP EDITION TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED			
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Virginia				JOB <u>PH- _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u>   </u> TO 19 <u>   </u>			
OFFICER-IN-CHARGE  Jeffrey G. Carlen, CDR							
I. INSTRUCTIONS DATED							
1. OFFICE  Compilation, Supplement II 6/14/73 Aerotriangulation 5/18/73 Final Review 6/3/77				2. FIELD  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 <u>Alaska</u> ZONE <u>1</u>			
5. SCALE  1:10,000				STATE <u>   </u> ZONE <u>   </u>			
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS				NAME		DATE	
1. AEROTRIANGULATION BY METHOD: Analytic LANDMARKS AND AIDS BY				D. O. Norman		Jul 1973	
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY				Allen		Jun 1973	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY COMPILATION CHECKED BY				NA			
INSTRUMENT: CONTOURS BY				NA			
SCALE: CHECKED BY				NA			
4. MANUSCRIPT DELINEATION PLANIMETRY BY				R. R. White		Sep 1973	
METHOD: Graphic CHECKED BY				A. L. Shands		Oct 1973	
SCALE: 1:10,000 HYDRO SUPPORT DATA BY				F. P. Margiotta		Sep 1973	
CHECKED BY				A. L. Shands		Oct 1973	
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY				A. L. Shands		Sep 1973	
6. APPLICATION OF FIELD EDIT DATA CHECKED BY				None			
7. COMPILATION SECTION REVIEW BY				None after 5. above			
8. FINAL REVIEW BY				C. H. Bishop		Sep 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 SURVEY

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## COMPILATION SOURCES

## 1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC-8 "E" and "M"		RC-9		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE		X (C) COLOR X X (P) PANCHROMATIC (I) INFRARED		ZONE		<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
<input checked="" type="checkbox"/> PREDICTED TIDES <input type="checkbox"/> REFERENCE STATION RECORDS <input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				Pacific			
				MERIDIAN		120 th	
NUMBER AND TYPE		DATE		TIME		SCALE	
72E(c) 4809-4810		7/4/72		15:02		1:30,000	
64M(p) 3654-3656		6/12/64		09:40		1:40,000	
						4.2 ft. above MLLW	
						3.8 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 photographs with frequent comparison with the 1964 photographs.

## 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-12791	T-12797	T-12800	T-12795
REMARKS			

NOAA FORM 76-36C  
(3-72)U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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## 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 O.F.S. & C.B.L.	Jun 1972
	ESTABLISHED BY None	
	PRE-MARKED OR IDENTIFIED BY O.F.S. & C.B.L.	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 <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)4810	STRAW, 1938		
72E(C)4810	SOON, 1938		

## 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)

2 Forms 152

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

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## 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.	Sep 1973	Class III		Oct 1973
Final review prior to registration	Sep 1977	Class III-MLLWL added, MHWL and kelp limits 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	



SUMMARY TO ACCOMPANY  
DESCRIPTIVE REPORT T-12796

September 1977

This 1:10,000 scale shoreline survey is one of 80 maps that comprise Project 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; it is subject to correction by field edit, if that should occur in the future.

Final review was done at the Atlantic Marine Center in Sept. 1977. The mean high water line was corrected at Station REEF 1938 and approximately 500 meters west of Station BERRY 1938.

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:

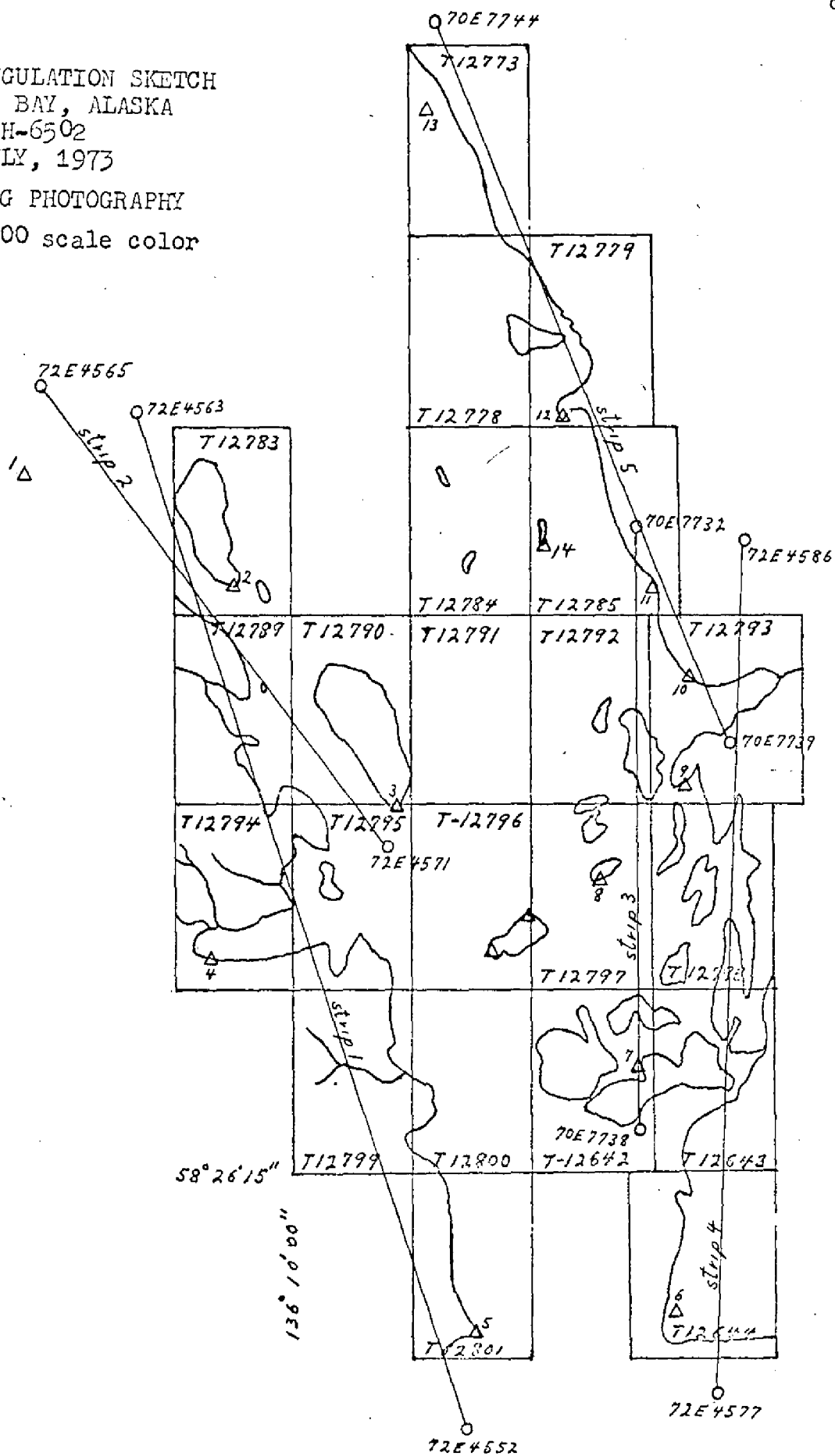
*John D. Ferrow, Jr.*  
John D. Ferrow, Jr.

Chief, Aerotriangulation  
Section



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

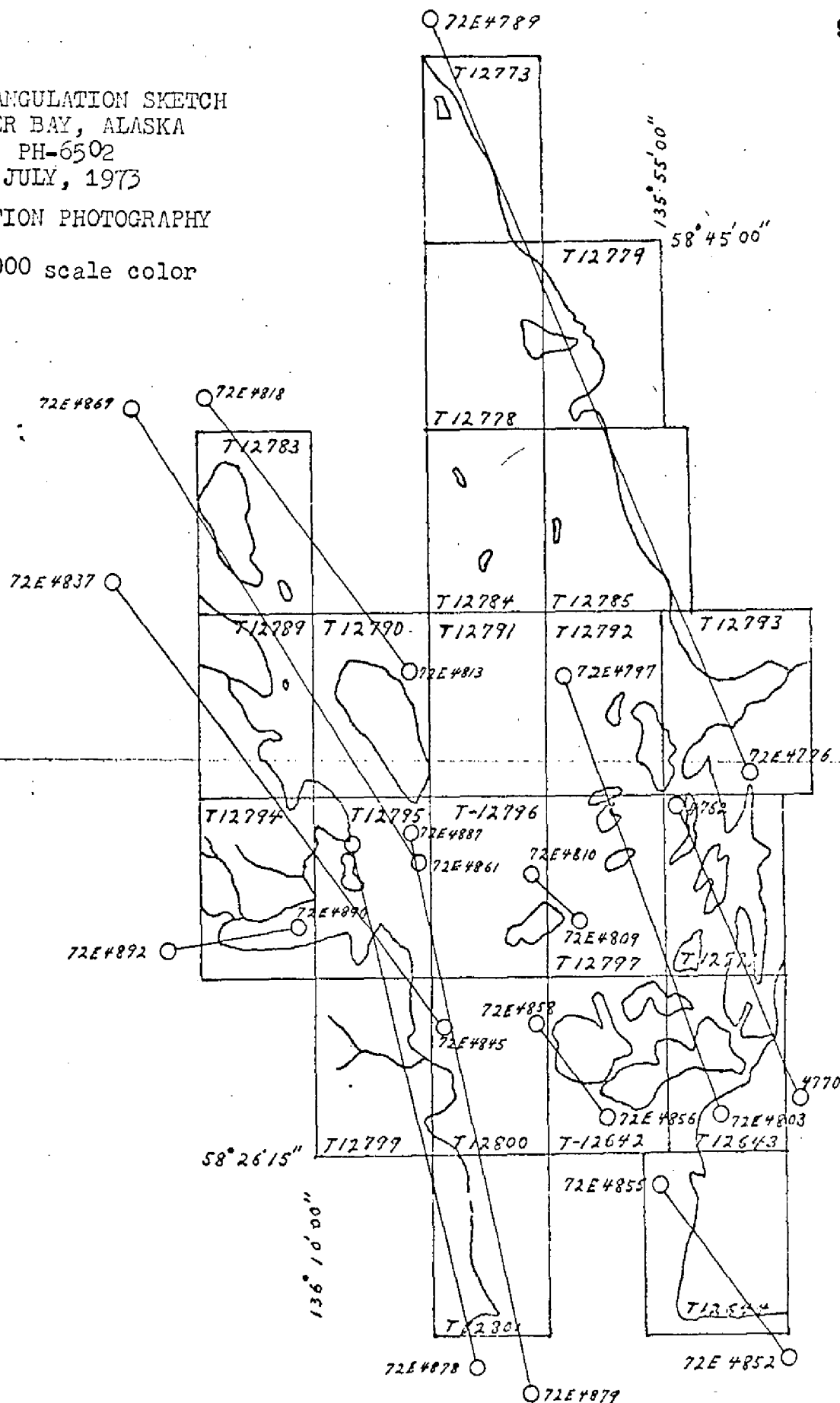
BRIDGING PHOTOGRAPHY  
01:40000 scale color



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)

## DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	JOB NO.	PH-6502	GEODETIC DATUM	NA	1927	ORIGINATING ACTIVITY	COASTAL Mapping
STATION NAME	SOURCE OF INFORMATION (Index)	AEROTRIANGULATION POINT NUMBER	COORDINATES IN FEET STATE Alaska ZONE 1	GEOGRAPHIC POSITION $\phi$ LATITUDE $\lambda$ LONGITUDE		REMARKS FORWARD BACK	
STRAW, 1938	G.P.VOL 3 P. 789		X=	$\phi$ 58 30	24.513	758.5	(1098.0)
			Y=	$\lambda$ 136 01	32.241	522.1	( 449.5)
SOON, 1938	G.P.VOL 3 P. 803		X=	$\phi$ 58 31	24.877	769.7	(1086.8)
			Y=	$\lambda$ 136 00	19.422	314.4	( 656.7)
BERRY, 1938	G.P.VOL 3 P. 797		X=	$\phi$ 58 30	25.192	779.5	(1077.0)
			Y=	$\lambda$ 136 00	15.899	257.5	( 714.1)
BEARD, 1907	G.P.VOL 3 P. 790		X=	$\phi$ 58 30	48.126	1489.1	( 367.4)
			Y=	$\lambda$ 136 01	27.206	440.5	( 530.9)
REEF, 1938	G.P.VOL 3 P. 804		X=	$\phi$ 58 33	36.173	1119.2	( 737.3)
			Y=	$\lambda$ 136 01	05.587	90.3	(879.8)
			X=	$\phi$			
			Y=	$\lambda$			
			X=	$\phi$			
			Y=	$\lambda$			
			X=	$\phi$			
			Y=	$\lambda$			
			X=	$\phi$			
			Y=	$\lambda$			
			X=	$\phi$			
			Y=	$\lambda$			
COMPUTED BY	A. C. Rauck, Jr.	DATE	7/3/73	COMPUTATION CHECKED BY		DATE 7/5/73	
LISTED BY		DATE		LISTING CHECKED BY		DATE	
HAND PLOTTING BY		DATE		HAND PLOTTING CHECKED BY		DATE	

## COMPILATION REPORT

T-12796

31. DELINEATION:

Delineation was by the graphic method using photo identifiable control. The photography was adequate.

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 office interpretation of the photographs.

35. SHORELINE AND ALONGSHORE DETAILS:

Alongshore details were delineated by office interpretation of the photographs.

The mean high water line was delineated from the photographs.

36. OFFSHORE DETAILS:

All offshore details were compiled graphically.

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 (C-1) Alaska, scale 1:63,360, dated 1949.

47. COMPARISON WITH NAUTICAL CHARTS:

A comparison has been made with the following Coast & Geodetic Survey chart: 8202, scale 1:209,978, 17th edition, September 11, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None.

ITEMS TO BE CARRIED FORWARD:

None.

Submitted by:

*Richard R. White*

Richard R. White  
Cartographic Technician  
Sept. 26, 1973

Approved:

*Albert C. Rauck Jr.*

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

## ADDENDUM TO COMPILATION REPORT

T-12796

During Final Review, corrections were made to the mean high water line at Station REEF 1938 and to the slough approximately 500 meters west of Station BERRY 1938.

By comparing the 1972 photographs with the 1964 photographs, a reasonable location for the approximate mean lower low water line was selected and applied to the map. The kelp limits were revised where necessary.

*Charles H. Bishop*  
Charles H. Bishop  
Final Reviewer  
September 6, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12796

Beardslee Entrance

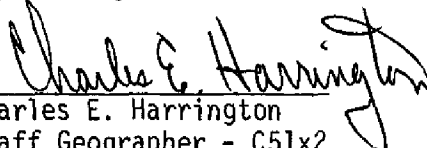
George Point

Glacier Bay

Strawberry Island

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 - 12796

1. PROJECTION AND GRIDS ALS	2. TITLE ALS	3. MANUSCRIPT NUMBERS ALS	4. MANUSCRIPT SIZE ALS
<b>CONTROL STATIONS</b>			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY ALS	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) NA		7. PHOTO HYDRO STATIONS ALS
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT ALS	11. DETAIL POINTS ALS
<b>ALONGSHORE AREAS (Nautical Chart Data)</b>			
12. SHORELINE ALS	13. LOW-WATER LINE ALS	14. ROCKS, SHOALS, ETC. ALS	15. BRIDGES ALS
16. AIDS TO NAVIGATION ALS	17. LANDMARKS ALS	18. OTHER ALONGSHORE PHYSICAL FEATURES ALS	19. OTHER ALONGSHORE CULTURAL FEATURES ALS
<b>PHYSICAL FEATURES</b>			
20. WATER FEATURES ALS		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 ALS
<b>CULTURAL FEATURES</b>			
27. ROADS ALS	28. BUILDINGS ALS	29. RAILROADS ALS	30. OTHER CULTURAL FEATURES ALS
<b>BOUNDARIES</b>			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
<b>MISCELLANEOUS</b>			
33. GEOGRAPHIC NAMES ALS		34. JUNCTIONS ALS	35. LEGIBILITY OF THE MANUSCRIPT ALS
36. DISCREPANCY OVERLAY ALS	37. DESCRIPTIVE REPORT ALS	38. FIELD INSPECTION PHOTOGRAPHS ALS	39. FORMS ALS
40. REVIEWER <i>Arnold L. Shands</i> Arnold L. Shands 10/1/73		SUPERVISOR, REVIEW SECTION OF 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-12796

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 SURVEYS:

A comparison was made with a copy of Survey T-6677, 1:20,000 scale, dated Sept. 1938, June-Sept. 1939. The shoreline on this prior survey is consistently inshore from the shoreline on T-12796.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A comparison was made with USGS Quadrangle MT. FAIRWEATHER (C-1), ALASKA, 1:63,360 scale, dated 1949. Rocks awash indicated on the quadrangle are in the foreshore area on T-12796. They are taken care of by the label "Gravel and boulders".

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

None--no contemporary hydrographic survey was available.

65. COMPARISON WITH NAUTICAL CHARTS:

A 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 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. 6, 1977

Approved for forwarding:

*Joseph W. Vonasek*

Joseph W. Vonasek  
Chief, Photogrammetric Branch, AMC

Approved:

*A. K. Hargrove*

Chief, Photogrammetric Branch

*James C. Allen*

Chief, Coastal Mapping Div.