

T-12800

ORIGINAL

T-12800

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-12800

Classification No. III Edition No. ... 1

LOCALITY

State ... Alaska

General Locality ... Glacier Bay

Locality ... Rush Point

1964 TO 1972

REGISTRY IN ARCHIVES

DATE

NOAA FORM 76-36A (3-72) <div style="text-align: right; font-weight: bold;">U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.</div> <div style="text-align: center; font-weight: bold; margin-top: 10px;">DESCRIPTIVE REPORT - DATA RECORD</div>		TYPE OF SURVEY <input checked="" type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	SURVEY T <u>12800</u> MAP EDITION NO. <u>(1)</u> MAP CLASS <u>III</u> JOB <u>PH- 6502</u>				
PHOTOGRAMMETRIC OFFICE Coastal Mapping Division Norfolk, Va. OFFICER-IN-CHARGE Jeffrey G. Carlen, CDR		LAST PRECEDING MAP EDITION <table style="width:100%;"> <tr> <td style="width:50%;"> TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED </td> <td style="width:50%;"> JOB <u>PH- _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u> </td> </tr> </table>		TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH- _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>		
TYPE OF SURVEY <input type="checkbox"/> ORIGINAL <input type="checkbox"/> RESURVEY <input type="checkbox"/> REVISED	JOB <u>PH- _____</u> MAP CLASS <u>_____</u> SURVEY DATES: 19 <u> </u> TO 19 <u> </u>						
I. INSTRUCTIONS DATED							
1. OFFICE		2. FIELD					
Aerotriangulation May 18, 1973 Compilation-Supp.II June 14, 1973 Final Review June 03, 1977		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 <div style="text-align: center;">Polyconic</div>		4. GRID(S) <table style="width:100%;"> <tr> <td style="width:50%;">STATE Alaska</td> <td style="width:50%;">ZONE 1</td> </tr> <tr> <td>STATE</td> <td>ZONE</td> </tr> </table>		STATE Alaska	ZONE 1	STATE	ZONE
STATE Alaska	ZONE 1						
STATE	ZONE						
5. SCALE <div style="text-align: center;">1:10,000</div>		STATE ZONE					
III. HISTORY OF OFFICE OPERATIONS							
OPERATIONS		NAME	DATE				
1. AEROTRIANGULATION METHOD: Analytic LANDMARKS AND AIDS BY		D. O. Norman	Jul 1973				
2. CONTROL AND BRIDGE POINTS METHOD: Coradomat PLOTTED BY		Allen	Jun 1973				
		Allen	Jun 1973				
3. STEREOSCOPIC INSTRUMENT COMPILATION PLANIMETRY BY		L.B.Foltz	Sep 1973				
INSTRUMENT: Wild B-8 SCALE: 1:15,000		L.O.Neterer Jr.	Sep 1973				
		NA					
		NA					
4. MANUSCRIPT DELINEATION METHOD: Smooth drafting		Frank Margiotta	Sep 1973				
		L.O. Neterer Jr.	Oct 1972				
		NA					
		NA					
SCALE: 1:10,000 HYDRO SUPPORT DATA BY		Frank Margiotta	Sep 1973				
		L. O. Neterer Jr.	Oct 1973				
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY		L.O. Neterer Jr.	Oct 1973				
6. APPLICATION OF FIELD EDIT DATA 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 SURVEYT-12800
COMPILATION SOURCES

1. COMPILATION PHOTOGRAPHY

CAMERA(S) Wild RC 8 "E" & RC 9 "M"		TYPES OF PHOTOGRAPHY LEGEND		TIME REFERENCE	
TIDE STAGE REFERENCE JUNEAU		X(C) COLOR X(P) PANCHROMATIC (I) INFRARED		ZONE	
<input checked="" type="checkbox"/> PREDICTED TIDES Bartlett Cove				Pacific	
<input type="checkbox"/> REFERENCE STATION RECORDS				MERIDIAN	
<input type="checkbox"/> TIDE CONTROLLED PHOTOGRAPHY				120th	
				<input checked="" type="checkbox"/> STANDARD <input type="checkbox"/> DAYLIGHT	
NUMBER AND TYPE	DATE	TIME	SCALE	STAGE OF TIDE	
72E(c) 4873-4875	7/4/72	15:38	1:30,000	6.1 ft. above MLLW	
72E(c) 4883-4885	7/4/72	15:45	1:30,000	6.3 ft. above MLLW	
64M(P) 3638	6/12/64	09:25	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 color 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 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-12796	T-12642	T-12801	T-12799

REMARKS

T-12800

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 (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

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-12800

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		
Final Review prior to registration	Sep 1977	Class III-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	

REVISED 9-5-72 RWW

JOB PH-6502
GLACIER BAY
ALASKA

Shoreline Mapping

SCALE 1:10,000

SUMMARY TO ACCOMPANY
DESCRIPTIVE REPORT T-12800

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. The approximate mean lower low water line was added and the kelp limits were revised.

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,

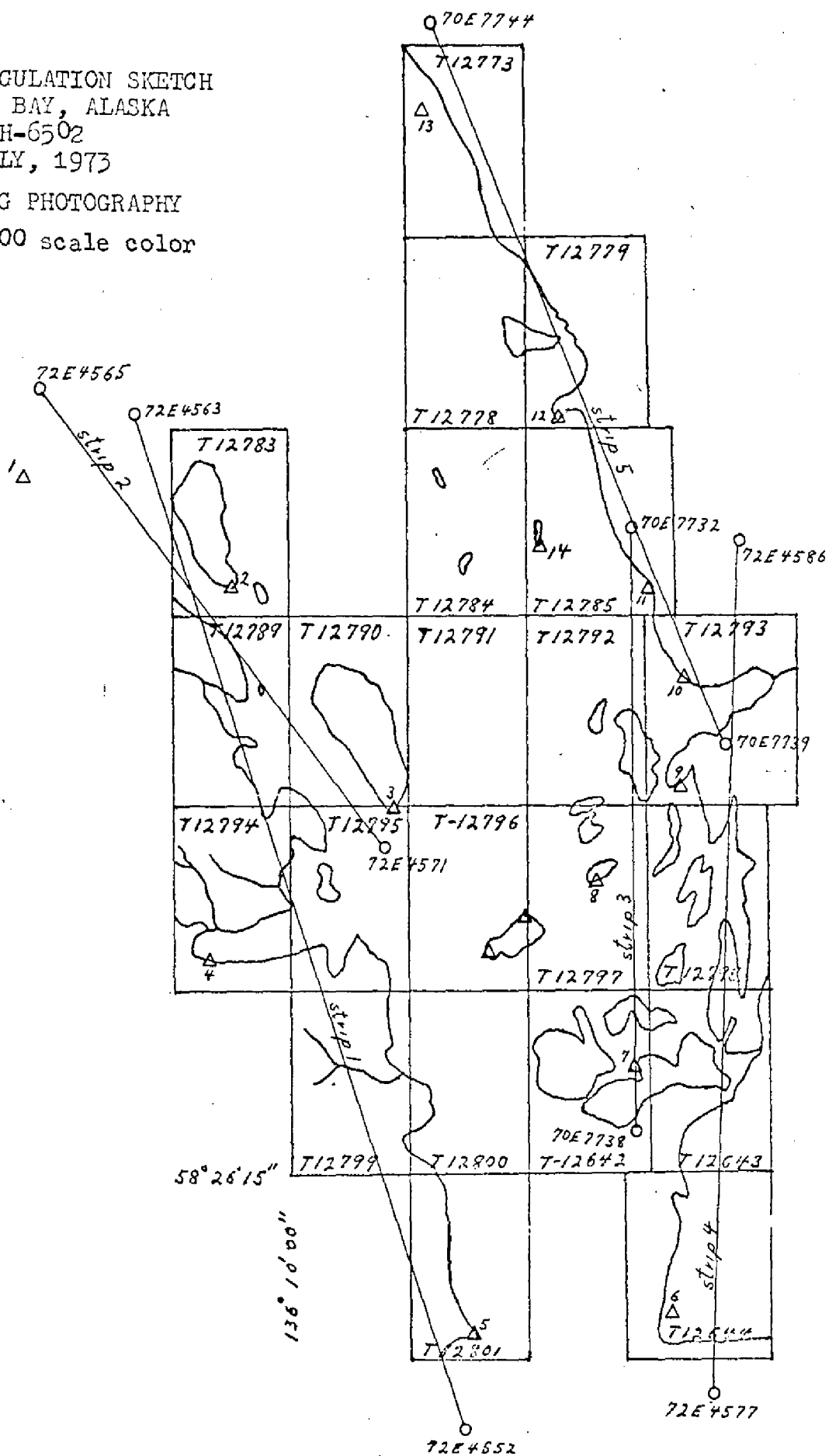
Don O. Norman
Don O. Norman

approved by:

John D. Ferrow, Jr.
John D. Ferrow, Jr.
Chief, Aerotriangulation
Section

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

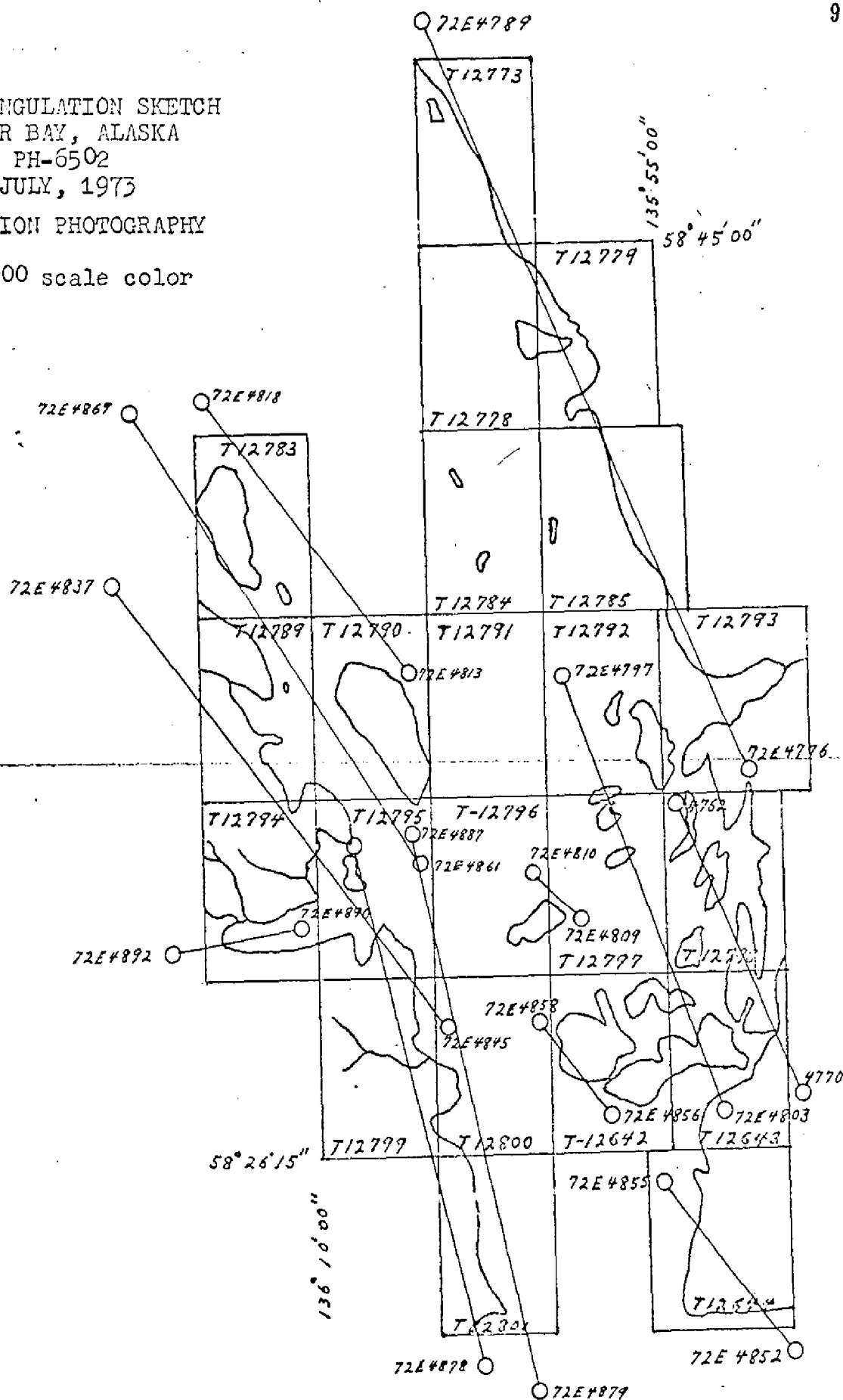
BRIDGING PHOTOGRAPHY
01:40000 scale color



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

COMPILATION PHOTOGRAPHY

○ 1:30000 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 SNOWHITE, 1970 (-0.5, -0.1)

DESCRIPTIVE REPORT CONTROL RECORD

MAP NO.	STATION NAME	JOB NO.	PH-6502	GEODETTIC DATUM		COORDINATES IN FEET STATE <u>Alaska</u> ZONE <u>1</u>	GEOGRAPHIC POSITION		ORIGINATING ACTIVITY Division, Norfolk, Va.	REMARKS
				NA	1927		ϕ LATITUDE	λ LONGITUDE		
T-12800										
	FIVE, 1938	G.P. VOL 3				X=	ϕ 58 28 02.549			FORWARD BACK 78.9' (1777.6)
		P. 789				Y=	λ 136 04 13.492			218.7' (754.0)
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
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						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
						X=	ϕ			
						Y=	λ			
COMPUTED BY	A. C. Rauck, Jr.								COMPUTATION CHECKED BY	Charles Parker
LISTED BY									DATE	8/2/73
HAND PLOTTING BY									DATE	
									DATE	

SUPERSEDES NOAA FORM 76-41, 2-71 EDITION WHICH IS OBSOLETE.

COMPILATION REPORT

T-12800

31. DELINEATION:

Delineation was by the Wild B-8 stereoplotter, using 1:30,000 color photography. Coverage 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 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;

Frank P. Margiotta
Frank P. Margiotta
Cartographic Technician
Sept. 27, 1973

Approved:

Albert C. Rauck, Jr.
Albert C. Rauck, Jr.

ADDENDUM TO COMPILATION REPORT

T-12800

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:

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 Eld".

Submitted by:

Charles H. Bishop

Charles H. Bishop
Final Reviewer
Sept. 20, 1977

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12800

Beardslee Entrance

Glacier Bay

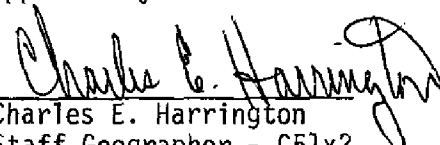
Ripple Cove

Rush Point

Sitakaday Narrows

Glacier Bay National Monument

Approved by:


Charles E. Harrington
Staff Geographer - C51x2

NOAA FORM 75-74
(7-75)

PHOTOGRAMMETRIC OFFICE REVIEW

U.S. DEPARTMENT OF COMMERCE
NOAA
NATIONAL OCEAN SURVEY

T - 12800

1. PROJECTION AND GRIDS LON	2. TITLE LON	3. MANUSCRIPT NUMBERS LON	4. MANUSCRIPT SIZE LON
CONTROL STATIONS			
5. HORIZONTAL CONTROL STATIONS OF THIRD-ORDER OR HIGHER ACCURACY LON	6. RECOVERABLE HORIZONTAL STATIONS OF LESS THAN THIRD-ORDER ACCURACY (Topographic stations) XX		7. PHOTO HYDRO STATIONS XX
8. BENCH MARKS NA	9. PLOTTING OF SEXTANT FIXES NA	10. PHOTOGRAMMETRIC PLOT REPORT LON	11. DETAIL POINTS LON
ALONGSHORE AREAS (Nautical Chart Data)			
12. SHORELINE LON	13. LOW-WATER LINE LON	14. ROCKS, SHOALS, ETC. LON	15. BRIDGES LON
16. AIDS TO NAVIGATION LON	17. LANDMARKS LON	18. OTHER ALONGSHORE PHYSICAL FEATURES LON	19. OTHER ALONGSHORE CULTURAL FEATURES LON
PHYSICAL FEATURES			
20. WATER FEATURES LON	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 LON
CULTURAL FEATURES			
27. ROADS LON	28. BUILDINGS LON	29. RAILROADS LON	30. OTHER CULTURAL FEATURES LON
BOUNDARIES			
31. BOUNDARY LINES NA		32. PUBLIC LAND LINES NA	
MISCELLANEOUS			
33. GEOGRAPHIC NAMES LON	34. JUNCTIONS LON		35. LEGIBILITY OF THE MANUSCRIPT LON
36. DISCREPANCY OVERLAY LON	37. DESCRIPTIVE REPORT LON	38. FIELD INSPECTION PHOTOGRAPHS NA	39. FORMS LON
40. REVIEWER <i>Lowell O. Neterer Jr.</i> Lowell O. Neterer Jr. 10/3/73		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-12800

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. The shoreline on T-6629 is consistently inshore from the shoreline on T-12800. No other significant difference was 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:

Charles H. Bishop

Charles H. Bishop
Cartographer
Sept. 20, 1977

Approved for forwarding:

Joseph W. Vonasek

Joseph W. Vonasek
Chief, Photogrammetric Branch, AMC

Approved:

A. K. Langford

Chief, Photogrammetric Branch

James C. ...

Chief, Coastal Mapping Div.