# 7 12776

# **7-12776**

NOAA FORM 76-35

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

# **DESCRIPTIVE REPORT**

Type of Survey Shorelin	e
Job No. PH-6502	
Classification No.	Edition No
Field Edited	
LOCALIT	Y
StateAlaska	
General Locality Glacier B	
Locality	
	, <del>, , , , , , , , , , , , , , , , , , </del>
19 64 TO	1970
1904 10	1970
REGISTRY IN AF	RCHIVES
DATE	•

☆·U.S. GOVERNMENT PRINTING OFFICE: 1973-761-775

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION

\* U.S. G.P.O. 1972-769382/582 REG.#6

NGAA FORM 76-36A (3-72) NATION	U. S. DEPARTMENT OF COMMERCE AL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY	TR-127	76
		ORIGINAL	MAPEDI	TION NO.	(1)
NESCRIPTIVE R	EPORT - DATA RECORD	RESURVEY	MAP CLA	\ss	_ ]
DESCRIPTIVE R	LI ORI - DATA RECORD	REVISED	BOL	рн. <u>. 650</u>	_
PHOTOGRAMMETRIC OFFICE					
) 	District Man 6-31	TYPE OF SURVEY	JOB	PH	
	Division, Norfolk	ORIGINAL		\ss	
OFFICER-IN-CHARGE		RESURVEY	SURVEY		
Jeffrey G. Carle	en, C <b>D</b> R	REVISED	19TO	19	
I. INSTRUCTIONS DATED					
<u> </u>	1. OFFICE	2.	FIELD	<u> </u>	
November 16, 190	54				
Docombon 10 100	C				
December 18, 196	23				
					<del></del>
11. DATUMS		OTHER (Specify)	- <del></del> -		
1. HORIZONTAL:	1927 NORTH AMERICAN				
	MEAN HIGH-WATER	OTHER (Specify)		<u>-</u>	
2. VERTICAL:	MEAN LOW-WATER  MEAN LOWER LOW-WATER				
	MEAN SEA LEVEL				
3. MAP PROJECTION		4.	GRID(S)		
Polyconic	2	Alaska	ZONE	1	
5. SCALE		STATE	ZONE	<u> </u>	<del></del>
1:10,000					
III. HISTORY OF OFFICE OPI				<del></del>	
1. AEROTRIANGULATION	PERATIONS BY	G. Ball		Aug.	<u>te</u> 1965
METHOD: Analytic	LANDMARKS AND AIDS BY	None			
2. CONTROL AND BRIDGE PO		C. Blood		Apr.,	1970
METHOD: Coordinat	<u> </u>	R. White A. Shands		Apr.,	1970 1970
3. STEREOSCOPIC INSTRUME COMPILATION	ENT PLANIMETRY BY CHECKED BY	A. Rauck & L. Ne	terer	May,	1970
INSTRUMENT: Wild F	3-8 CONTOURS BY	N.A.		<del></del>	
SCALE: 1:15,0	<del> </del>	D 13.2			1000
4. MANUSCRIPT DELINEATIO		B. Wilson		May,	1970
	CHECKED BY	R. Pate N.A.	<del></del>	May,	1970
метнор: Smooth ir	nk drafting CHECKED BY		<del></del>	<del></del>	
scale: 1:10,000	HYDRO SUPPORT DATA BY	B. Wilson		May,	1970
	CHECKED BY	R. Pate		May,	1970
5. OFFICE INSPECTION PRIC		R. Pate		May,	1970
6. APPLICATION OF FIELD		A. Shands B. Barge		Nov.,	1971 1971
7. COMPILATION SECTION R	CHECKED BY	B. Barge		Nov.,	1971
8. FINAL REVIEW	BA	C. Bishop		June,	1975
9. DATA FORWARDED TO PH	<del></del>				
10. DATA EXAMINED IN PHOT	OGRAMMETRIC BRANCH BY				
11. MAP REGISTERED - COAS		n. J. Frances		ang 20	192
NOAA FORM 76-36 A	SUPERSEDES FORM CAGS 181 SERIES	, a 11 S. G.P	.0. 1972	769382 /582	RFG.#



NOAA FORM 76-36B (3-72)	T·	-12 <b>7</b> 76	NATIONAL OCEA		DEPARTMENT MOSPHERIC AD NATIONAL (	MINISTRA
	CO	APILATION SC	URCES			
1. COMPILATION PHOTOGRAPHY						
CAMERA(S) Wild RC-9 "M"			PHOTOGRAPHY EGEND		TIME REFERE	ENCE
TIDE STAGE REFERENCE JU  REDICTED TIDES (Willou	NEAU ghby I.d.)	(C) COLOR			zone Pacific	
REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRA	3	χ (P) PANCHR (I) INFRARI		MERIDIAN 120 V		□ DĄYL!
NUMBER AND TYPE	DATE	TIME	SCALE		STAGE OF T	IDE
54 M(P) 375 <b>7</b>	6/12/64	12:19	1:40,000	1.0 f	ft. above	MLLW
54 M(P) 3666 & 3667	6/12/64	10:06	1:40,000	4.0 f	t. below	MLLW
REMARKS		1	<del></del>	<del></del>	<u></u>	
2. SOURCE OF MEAN HIGH-WATER  Field inspectio  office interpretat	n <b>(</b> Aug., 196			, 19 <b>7</b> 0),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat	n (Aug., 196 ion of above	e listed p		, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat	n (Aug., 196 ion of above	e listed p		, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat	n (Aug., 196 ion of above	e listed p	notos.	, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER	n (Aug., 196 ion of above	e listed p	notos.	, 19 <b>7</b> 0),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER	n (Aug., 196 ion of above	e listed p	notos.	, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER	n (Aug., 196 ion of above	e listed p	notos.	, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER	n (Aug., 196 ion of above	e listed p	notos.	, 1970),	, and	
2. SOURCE OF MEAN HIGH-WATER Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER	n (Aug., 196 ion of above	e listed p	notos.	, 19 <b>7</b> 0),	, and	
2. SOURCE OF MEAN HIGH-WATER  Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER  Office interpre	n (Aug., 196 ion of above  OR MEAN LOWER Le	OW-WATERLINE	ed photos.			·
2. SOURCE OF MEAN HIGH-WATER  Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER  Office interpretate  4. CONTEMPORARY HYDROGRAPH	n (Aug., 196 ion of above  OR MEAN LOWER Le	OW-WATER LINE:  above liste	ed photos.		etric survey inf	ormation.)
2. SOURCE OF MEAN HIGH-WATER  Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER  Office interpretate  4. CONTEMPORARY HYDROGRAPH	n (Aug., 196 ion of above	OW-WATER LINE:  above liste	ed photos.	r photogramme	etric survey inf	
2. SOURCE OF MEAN HIGH-WATER  Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER  Office interpretate of the survey number	or MEAN LOWER Later of a survey con	OW-WATER LINE: above liste	ed photos.  that are sources for	r photogramme	etric survey info	
2. SOURCE OF MEAN HIGH-WATER  Field inspectio office interpretat  3. SOURCE OF MEAN LOW-WATER  Office interpretate  4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S)  5. FINAL JUNCTIONS	n (Aug., 196 ion of above	OW-WATER LINE:  above listed  only those survey:  PY USED SUR	ed photos.  that are sources for	r photogramme	etric survey inf	COPY USE

NOAA FORM 76-36C (3-72)	T-12776 HISTORY OF FIELD		NIC AND ATMOSPHERIC	NT OF COMMERC ADMINISTRATIO L OCEAN SURVE
I. A FIELD INSPECTION OF	PERATION FIEL:	EDIT OPERATION	· · · · · · · · · · · · · · · · · · ·	
	OPERATION		IAME	DATE
1. CHIEF OF FIELD PARTY		R.H. Houlde		Summer 1964
2. HORIZONTAL CONTROL	RECOVERED BY None established by			
<u> </u>	PRE-MARKED OR IDENTIFIED BY			
	RECOVERED BY			ļ
3. VERTICAL CONTROL	None ESTABLISHED BY	<u></u>		<u> </u>
	PRE-MARKED OR IDENTIFIED BY	<u> </u>		
	RECOVERED (Triangulation Stations) BY	ļ		
4. LANDMARKS AND AIDS TO NAVIGATION	None IDENTIFIED BY	<u> </u>		<u> </u>
	TYPE OF INVESTIGATION	<del> </del>	<del></del>	<del> </del>
E GEOGRAPHIC NAMES	COMPLETE			
5. GEOGRAPHIC NAMES INVESTIGATION	SPECIFIC NAMES ONLY			
	NO INVESTIGATION			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Sheard		Aug. 1964
7. BOUNDARIES AND LIMITS	<del></del>	N.A.	<u> </u>	1109. 1209
II. SOURCE DATA	87	<u></u>	<del></del> -	<del></del>
I. HORIZONTAL CONTROL	dentified None	2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DES	IGNATION
3. PHOTO NUMBERS (Clariti 64 M(P) 3667	cation of details)			
4. LANDMARKS AND AIDS TO	NAVIGATION IDENTIFIED			
None	O NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND	D LIMITS: REPOF	RT NONE
7. SUPPLEMENTAL MAPS A		-		
None				
8. OTHER FIELD RECORDS	(Sketch books, etc. DO NOT list data submit	ted to the Geodesy Di	ivision)	
Field Insp	ection Report.			
IOAA FORM 76-36C			S. G.P.O. 1972-76	0201 /ECT DEC

NOAA FORM 76-36C (3-72)	T-12776 History of Field		NIC AND ATMOSPHE	MENT OF COMMERCE RIC ADMINISTRATION DNAL OCEAN SURVEY
I. TIELD INSPECTION OP	ERATION X FIEL	D EDIT OPERATION		··· · · · · · · · · · · · · · · · · ·
	PERATION	T	NAME	DATE
1. CHIEF OF FIELD PARTY		J.B. Watkir		Summer 19 <b>7</b> 0
2. HORIZONTAL CONTROL	RECOVERED BY NONE ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	:		
3. VERTICAL CONTROL	RECOVERED BY NONE ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY			
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY  LOCATED (Field Methods) BY  NONG IDENTIFIED BY  TYPE OF INVESTIGATION			
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION			- 10.20
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	M.R. Mulher	?n	Aug. 1970
7. BOUNDARIES AND LIMITS II. SOURCE DATA	SURVEYED OR IDENTIFIED BY	N.A.		
1. HORIZONTAL CONTROL ID	None	2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION D	ESIGNATION
3. PHOTO NUMBERS (Claritics	ation of details)	<u> </u>		
64 M(P) 366	6			
4. Landmarks and aids to None	NAVIGATION IDENTIFIED			
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC	T NAME
5. GEOGRAPHIC NAMES:	REPORT NONE	6. BOUNDARY AN	D LIMITS: REF	ORT X NONE
7. SUPPLEMENTAL MAPS AN None	D PLANS			
	ikeich books, eic. <b>DO NOT</b> list date submitt it Report, Field Edit O:		ivision)	

NOAA FORM 76-36D

(3-72)

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

T-12776

		RECO	RD OF SURVE	Y USE		
I. MANUSC	RIPT COPIES					
	со	MPILATION STAGE	s	· <u> </u>	DATE MANUSCRI	PT FORWARDED
	DATA COMPILED	DATE	RE	MARKS	MARINE CHARTS	HYDRO SUPPORT
	ation complete g field edit	May, 1970	Supers	eđed		5/21/ <b>7</b> 0
	edit applied, ation complete	Nov. 1971	Class : Supers			
Fiṇal	Review	June 1975				
II. LANDM.	ARKS AND AIDS TO NAVIGA	TION	L			
	ORTS TO MARINE CHART DI		DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS	
<del></del>						
		<u> </u>		· <del></del>	· · · · · · · · · · · · · · · · · · ·	
				<u> </u>	<del> </del>	
				<del></del>		
<u></u>	REPORT TO MARINE CHART	·				
	REPORT TO AERONAUTICA		, AERONAUTICAL	DATA SECT	TION. DATE FORWARDED:	
1. [] 2. [] 3. []	BRIDGING PHOTOGRAPHS; CONTROL STATION IDENTI SOURCE DATA (except for G ACCOUNT FOR EXCEPTION	DUPLICATE FICATION CARDS; eographic Names Re	FORM NOS	567 SUBMI	TTED BY FIELD PARTIES.	
4.	DATA TO FEDERAL RECOR	ROS CENTER. DAT	E FORWARDED:			_
IV. SURVE	Y EDITIONS (This section s	hall be completed ea	ach time a new may	edition is re	egistered)	
	SURVEY NUMBER	ЭВМИИ ВОГ			TYPE OF SURVEY	
SECOND	TP -	(2) PH				SURVEY
EDITION	DATE OF PHOTOGRAPH		. <u></u>	□n.	MAP CLASS	FINAL
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	SURVEY
THIRD EDITION	DATE OF PHOTOGRAPH	(3) PH	ELO EDIT	□···	MAP CLASS	FINAL
<del></del>	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVEY	
FOURTH	тр	_ (4) PH			REVISED RES	ÜRVEY
EDITION	DATE OF PHOTOGRAPH	<u> </u>	ELD EDIT	<b>□</b> π.	MAP CLASS	FINAL



REVISED 9-5-72 RWW

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

#### SUMMARY TO ACCOMPANY

#### DESCRIPTIVE REPORT T-12776

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502 which covers Glacier Bay, Alaska and its numerous tributaries. For convenience of compilation, the project was divided into five parts, according to aerotriangulation bridges. This map is one of 21 maps that comprise Part I which covers Glacier Bay from Geikie Inlet to Composite Island.

Field inspection was done by an experienced photogrammetrist in August, 1964. No horizontal control identification was required in the area covered by this map.

Bridging was done by analytic aerotriangulation methods in the Rockville Office in August, 1965, using 1:40,000 scale panchromatic wide angle photography taken in June, 1964.

Compilation was done at the Atlantic Marine Center, Norfolk, in May, 1970, using the Wild B-8 plotter, with 1:40,000 scale photography taken in June, 1964. Photographs were ratioed to 1:10,000 scale for photo-hydro support and field edit use. The time of photography was near low water.

Field edit was done in conjunction with hydrography in June, and August, 1970.

Final review was done at the Atlantic Marine Center in June, 1975.

The original manuscript was a stabilene sheet 3 minutes 45 seconds in latitude by 5 minutes on longitude.

A stable base positive copy and a negative of the final reviewed manuscript were forwarded for record and registry.

#### FIELD INSPECTION REPORT

#### Project 21423 - Glacier Bay

#### 2. AREAL FIELD INSPECTION

No map numbers appear on the Project Diagram for this part of Glacier Bay which includes inspection of the islands and bays on the west side from the south end of Willoughby Island northward to Tlingit Point, then both shores northwestward to Tidal Inlet on the north, Gilbert Island and Hugh Miller Inlet on the south.

Ö.

There are no populated places. All the area lies within the Glacier Bay National Monument and is managed by the National Park Service. A pamphlet regarding the Monument is enclosed, herewith.

The shoreline varies from that at the base of rock bluffs or steep slopes, where there is no beach, to the irregular type where there are numerous indentations, ledge out-croppings and narrow gravel and boulder-strewn beaches.

There are two major inlets on the southeast shore, (Geikie and Hugh Miller -CHarpentier) and one on the north (Tidal). At the heads of these inlets and the principal coves off them are tidal flats probably caused by streams flowing from the receding glaciers. These are gravel and silt. The one at the head of Geikie Inlet is near the base of a glacier partly visible on the photographs - 64M 3752 and 3753. It is intersting to note the large "mountains" of loose gravel on the north side evidently left by the receding glacier.

Field inspection was of necessity rather hurriedly done due to a bad weather period and completion deadline. However, practically the entire shoreline was covered and inspection is believed to be adequate.

Field inspection notes will be found on the following 1:40,000 scale photographs: 64M 3646, 3651, 3652, 3661, 3662, 3663, 3665 thru 3670, 3682, 3684, 64M 3748 thru 3750, 3755 thru 3757, 3761 thru 3764, 3766 thru 3768.

The photography is of excellent quality with no significant problems as to definition or interpretation. Coverage is complete except for Lone Island, a small island approximately midway between north and south shores in Glacier Bay. Triangulation Station Lone 1939 at Lat. 58° 43' 20.492", Long. 136°17' 35.614", is on the island. About half of the island is visible on photo 64M 3757.

#### 3. HORIZONTAL CONTROL

Photogrammetric plot requirements are believed to be satisfied by (1) recovery and identification of existing stations as called for on the project diagram and (2) establishment and identification of two new stations by triangulation methods.

Enlargements of sections of the 1:40,000 scale contact photographs were furnished for identification of several of the required control stations. These proved very useful. However, enlargements were not received for Stations: STAR, EISE, OPEN and DRAKE on flight strip No. 3. These were identified on the contact photos.

The two stations established are RANA and ACE. Positions are furnished with project data. These stations marks were set in 1944 by S.B.G., but the season apparently ended before positions were determined.

#### Cont.

One required station could not be found. In place of it, (DINGO), nearby station KNOB was identified.

A 11 stations recovered and identified are Coast and Geodetic Survey stations except HUGH MILLER EAST BASE 1907 and GLOOMY 1907, which were established by the International Boundary Commission.

Note: The U. S. Geological Survey is in process of publishing new quadrangal maps of the northwest part of Glacier Bay, the field work having been done in the early 1960's. It is believed that they established additional horizontal control that may prove useful to future surveys northwestward of our 1964 work. It is suggested that this be investigated before the next seasons work is begun.

#### 4. YERTICAL CONTROL

Inapplicable.

#### 5. CONTOURS AND DRAINAGE

Contours are inapplicable.

The photographs show many small streams flowing down the mountains from the melting snow and ice. Nany were labelled but thorough check was not attempted. The photographs were taken in June when the runoff was building to its height and the streams are readily seen. It is felt that they should be delineated "Perennial", as the snow and ice melts all summer, never entirely dissipating in most areas.

#### 6. WOODLAND COVER

Except where covered by snow, the wooded areas are obvious on the photographs. Usually where there is a beach, it is fringed with dense alder. The alder seems to be gaining in its northward growth as the glaciers recede. It is thick and tall and is worthy of being mapped as trees or woods and has been so labelled numerous times. Other trees are mostly conifers with some deciduous here and there.

#### 7. SHORELINE AND ALONGSHORE FEATURES

These were visually inspected from a skiff running close to shore.

Mean high-water line has been indicated by dashes in red ink on the photographs. An attempt was made to place the ink line in its true position as viewed from the skiff. In some instances the compiler, working under more favorable conditions can delineate the line more accurately, particularly with regards small indentures and added character that will readily be seen on large scale photos or plates. At times, notes were made indicating that the mean high-water line was obvious, such as at the base of a bare rock mountain where high-water and low-water lines are synonymous, or practically so. Along numerous stretches of shoreline where there is a narrow beach, the mean high-water line lies against the vegetation; other stretches find the line offshore 3 to 5 meters from the vegetation. Notes cover most of these cases.

The photographs were taken at or near low-water. The low-water line is obvious and has been indicated as approximate with green dots at many places.

#### 7. Cont.

A large part of the inspection was done at low tide and the foreshore classified at that time. It is reasonably thorough and accurate.

There are no man-made shoreline structures. Many protouding ledges are visible, a large number; being labelled.

There is no "apparent" shoreline.

Mean high-water lines crossing the tidal flats have been labelled "approximate". The line as shown was arrived at by observing (1) slight change of photographic tone, (2) crossing the flat from a snow line which comes down to high water, (3) detecting a tiny streak of debris deposited at high-water, or (4) accomplishing the inspection at or near high water.

#### 8. OFFSHORE FEATURES

Rocks and a few shoals constitute the offshore features. These were visited and labelled. Height of rocks above mean high-water was obtained by carefully estimating the amount (in feet) that is above the high-water markings on the rock, or the height bare at hour and date of inspection. Time did not permit accurately measuring these features but it is believed they are labelled within a foot or two of true heights.

Refer to item 7 for a discussion of low-water line and foreshore.

#### LANDMARKS

None

# 10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

#### 11. OTHER COUTROL

None established.

#### 12. OTHER INTERIOR FEATURES

None.

#### 13. GEOGRAPHIC NAMES

No systematic investigation was made. No conflicts or new names came to light during the course of the work. It is suggested that comparison of charted names be made with the latest U. S. Geological Survey quadrangals.

#### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

None.

#### 15. SUNIMARY

The recovery and identification of horizontal control was completed for the central section of Glacier Bay between Willoughby Island and Gilbert Island. Field inspection of this area was also completed.

It appears that it will be necessary to establish an extensive sea level control scheme northwest of Gilbert Island and in Tarr Inlet in order to meet photogrammetric and hydrographic requirements. The only stations in this area are 1909 IBC stations on mountains peaks normally covered with snow thus difficult to recover and impossible to identify on the photography. In order to comply with 2nd order specifications, this scheme should start in central Glacier Bay at stations CASE and GELMIE and should consist of a combination of triangulation and electronic traverse.

William A. Shearawa

William H. Shearouse Cartographer

Approved and Forwarded

Richard H. Houlder, LCDR, USC&GS

Stations which were recovered, or searched for, or established, and/or identified are tabulated below.

STATION NAME	RECOVERED	IDENTIFIED	PHOTO NO.
JILL 1938	yes	yes	64 M 3692 (onlarg)
NONE 1938	yes	no	
ALUN 1938	yes	no	
TREE 1938	х̂өв	no	•
SPIT, 1938	yes	no	
STAR 1938	yes	yes	64 M 3653 (contact)
EVER 1939	yes	yes	64 M 3661 (enlarg)
ELSE 1939	yes	уев	64 M 3649 (enlarg)
VENT 1939	yes	no	
SINK 1939	уев	no	
FRANK 1939	yes	no	
OPEN 1939	yes	yes	64 M 3649 (contact)
GOLD 1939	yes	no *	
JUST 1939	yes	no	
DUCE 1939	уез	no	
ENTER 1939	yes	no .	
KILL 1939	yes	ne	
DRAKE 1939	yes	уев	64 M 3648 (contact)
RIDGE 1939	yes	no	
DESERT 1944	yes	yes	64 M 3746 (enlarg)
KELP 1944	yes ·	no	
JUMBO 1944	yes	no	
MID 1944	yes	on	
BUTE 1944	yes	no	

STATION NAME	RECOVERED	IDENTIFIED	PHOTO NO.
VEIN 1944	yes	no .	
ROUND ?	yes	no	
SNOW 1944	ye <b>s</b>	no	
BALD 1944	yes	no	
KNOB 1944	yes	уөв	64 M 3749 (contact)
DINGO 1944	no .		
CUBE 1944	yes	yes	64 M 3750 (enlarg)
POINT 1944	уев	no	
FOX 1944	yes	no	*
MINK 1944	yes	no	
ARCH 1944	yes	уев	64 M 3685 (enlarg)
RAMPART 1944	yes	<b>№</b> 0 <del>УОС</del>	
FLAT 1939	yes	yes	64 M 3666 (enlarg)
HUGH MILLER W BASE 1907	no	, , , , , , , , , , , , , , , , , , ,	
HUGH MILLER E BASE 1907/1944	yes	yes	64 N 3668 (enlarg)
GLOOMY 1907	yes	yes	64 M 3768 (enlarg)
CASE 1939	yes	yes	64 M 3762 (enlarg)
DONE 1939	yes	yes	64 M 3761 (enlarg)
TLINGIT 1939	yes	yes	64 M 3761 (enlarg)
GEIKIE 1939	yes	no	•
LONE 1939	yes ,	no	contact
RANA 1964	yes	yes	64 M 3669 (岩湖北美)
ACE 1964	yes	yes	· 64 M 3765 (contact)
FLAG 1944	yes	no	
NORTE 1939	yes	no	
QUICK 1939	yes	no	

#### PHOTOGRAMMETRIC PLOT REPORT Project 21511 Alaska August 1965

#### 21. Area Covered

This report covers an area of Alaska in a portion of Glacier Bay from 136° 05' 00" W to 136° 36' 00" W, including Geikie Inlet.

#### 22. Method

Analytic aerotriangulation methods were used: to bridge six strips of "M" photography at the scale of 1:40,000. The attached sketches of strips bridged shows the triangulation used in the adjustments. Closures to control and tie points have been tabulated.

# 23. Adequacy of Control

Horizontal control identified and required to adjust these strips was very fine. Control identification, with the exception of RANA, 1964 and CASE, 1939 which could not be positively identify by the instrument operators, was of superior quality. The field party is to be complimented on their excellent work. For the most part, triangulation sub points, were clearly visible on the cross flights, this was accomplished in an area of extremely rough terrain. All stations were used in this adjustment except RANA, 1964 and CASE 1939, the results of the six bridges should comply to the National Standards of Map Accuracy for the twenty shoreline sheets to be compiled.

# 24. Supplemental Data

Numerous USGS quads were used to obtain elevations required for the final horizontal and vertical adjustments.

# 25. Photography \*

Photography was adequate with regard to coverage, overlap and image definition.

Respectfully submitted:

George M. Ball

Approved and Forwarded:

Henry/P. Eichert

Acting Chief, Aerotriangulation Section

# Closure to control and tie points

STRIP #1

DRAKE, 1939

OPEN, 1939

ELSE, 1939

EVER, 1939

TAR, 1939

Ties to Strip #2

STRIP #2

JILL, 1938

EVER, 1939

-STRIP #3

LSE, 1939

EVER, 1939

OPEN, 1939

DESERT, 1944

FLAT, 1939

ARCH, 1944

HUGH MILLER E. BASE, 1907

RANA, 1964

(Neither of these points could be clearly seen)
Home Sta. (+8.2 -11.7)
SS#1 (+7.9 16.9)

Ties to Strip #2

Ties to Strip #1

STRIP #4

```
STRIP #4 (continued from page 2)
CUBE, 1944
              (+0.6 -1.0)
(-1.8 -1.2)
     SS#1
KNOB, 1944
     SS#1
              (+1.2 -5.8)
              (-1.9 +1.1)
     SS#2
ARCH, 1944
     SS#1 (+0.8 +1.2)
SS#2 (+3.8 +0.3)
DESERT, 1944
              (+2.7 +0.9)
(+2.8 +2.7)
     SS#1
     SS#2
FLAT, 1939
              (+0.5 -0.7)
(-2.3 -2.4)
     SS#1
   STRIP #5
DESERT, 1944
              (+0.6 -1.0)
(+2.3 -0.5)
     SS#1
FLAT, 1939
              (+3.5 +2.0)
     SS#2
              (Point not visible on this strip)
ARCH, 1944
              (-1.8 +1.3)
(+1.5 +1.5)
     SS#1
     SS#2
KNOB, 1944
                     -8.4)
     SS#1
              (+2.5 -8.4)
(+1.6 -0.9)
     SS#2
CUBE, 1944
```

Tie points to Strip #3

Tie points to Strip #4

STRIP #6

TLINGIT, 1939

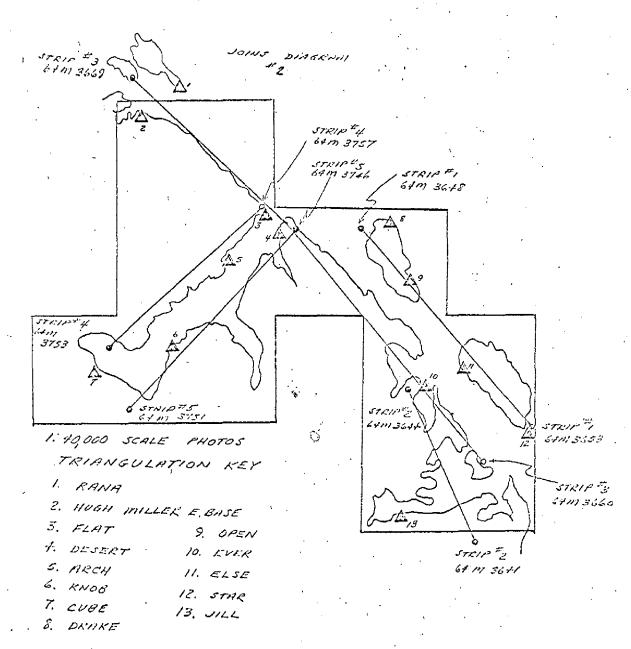
DONE, 1939

CASE, 1939 (Neither of these points were clearly seen)

ACE, 1964

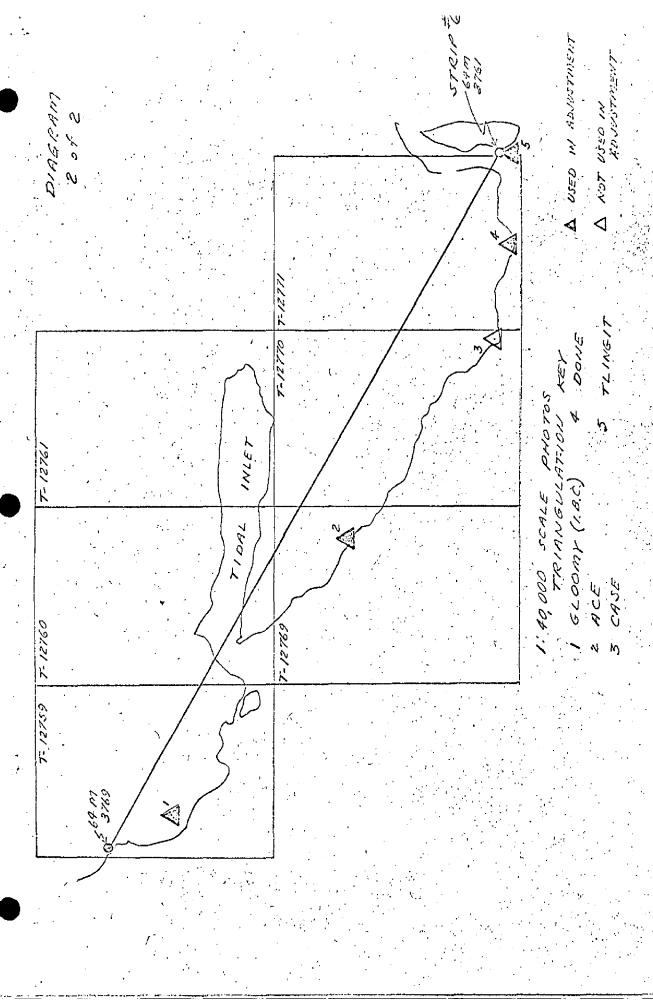
GLOOMY, 1907

GLACIER BAY
DIAGRAM
1 of 2



L USED IN HOUUSTMENTS

A NOT USED IN ADJUSTMENTS,



U.S. DEPARTMENT OF COMMERCE IN ATIONAL OCEANIC AND ATMOSPHERIC ADM. TRATION

NOAA FORM 76-41
(2-71)
USCOMM-DC
34168-P71
(FORMERLY FORM C&GS-164)

DESCRIPTIVE REPORT CONTROL RECORD

20 DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) (BACK) N.A. 1927 - DATUM (594.7)(927.2) None 4/24/70 929.3 370.9 FORWARD SCALE FACTOR DATE LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE 30.03537 23.04476 1:10,000 R. White 431 241 SCALE OF MAP\_ CHECKED BY 136° 580 N.A. 1927 DATUM PH-6502 SOURCE OF INFORMATION 4/24/70 G.P. Vol. : Pg. 1038 (INDEX) DATE PROJECT NO. C. Blood STATION MAP T. 12776 ZOE, 1944 COMPUTED BY

#### COMPILATION REPORT

#### T-12776

#### 31. DELINEATION

The Wild B-8 plotter was used. The photography was satisfactory. Field inspection was adequate.

#### 32. CONTROL

See "Photogrammetric Plot Report", for Project 21511, dated Aug., 1965.

#### 33. SUPPLEMENTAL DATA -

None

#### 34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was delineated from office interpretation of the photos.

#### 35. SHORELINE AND ALONGSHORE DETAILS

The shoreline was delineated as inspected. The approximate mean lower low water line shown from office interpretation of the photos.

#### 36. OFFSHORE DETAILS

The cluster of offshore rocks was not indicated by the field inspector; they were delineated from office interpretation of the photos.

#### 37. LANDMARKS AND AIDS

None

#### 38. CONTROL FOR FUTURE SURVEYS

None

#### 39. JUNCTIONS

Satisfactory junctions were made with:

T-12775 to the west T-12777 to the east

T-12781 to the south T-12769 to the north

#### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement

#### 41. FIELD EDIT

Field edit was adequate

#### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER (C-2), ALASKA, scale 63,360, dated 1950. The offshore rocks do not appear on this quadrangle.

#### 47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Chart 8202, scale 1:209,978, 15th edition, dated Oct. 21, 1968.

There is shown on the chart an unidentified obstruction at  $50^{\circ}$  44' 45" latitude and  $136^{\circ}$  24' 45" longitude. At chart scale this is about 4 millimeters difference in latitude and 3 millimeters in longitude from the position on the manuscript of the offshore rock cluster.

#### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDITELY

None

#### ITEMS TO BE CARRIED FORWARD

None

Respectfully submitted:

Charles H. Bishop

For B. Wilson, May 8, 1970 Cartographic Technician

Approved: Albert C. Ranck V.

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

28 March 1975

### GEOGRAPHIC NAMES

# FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12776

Glacier Bay

Glacier Bay National Monument

Hugh Miller Rocks

Approved by:

Chas. E. Harrington Staff Geographer-C51x2

NOAA FORM 75-74 (2-74)			ι	J.S. DEPARTMENT OF COMMERCI
	PHO	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVE
		T-	12 <b>7</b> 76	
1. PROJECTION AND GRIDS	2 TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RJP	RJP		RJP	RJP
CONTROL STATIONS	<del></del>			
5. HORIZONTAL CONTROL ST THIRD-ORDER OR HIGHER	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
RJP	ACCORAC Y	(Topographic	stations)	хх
8. BENCH MARKS	9. PLOTTING	SEXTANT	10; PHOTOGRAMMETRIC	11. DETAIL POINTS
U, BENCH MARKS	FIXES	or sexing	PLOT REPORT	III DETAIL POINTS
			RJP	RJP
ALONGSHORE AREAS (Nautica	l Chart Data)			
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
ŔJP	. F	JP	RJP	
16. AIDS TO NAVIGATION	17. LANDMARK	:s	18. OTHER ALONGSHORE	19. OTHER ALONGSHORE
			PHYSICAL FEATURES	CULTURAL FÉATURES
PHYSICAL FEATURES				
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
		x	. <b>X</b>	x x
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
χх	_х х		хх	
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	<b>i</b>	29. RAILROADS	30. OTHER CULTURAL FEATURES
χχ	<u> </u>	<u>.                                    </u>	<u> </u>	x x
BOUNDARIES 31. BOUNDARY LINES			133 000110	
			32. PUBLIC LAND LINES	
<u> </u>			^ ^ ^	<del></del>
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	<u> </u>	35. LEGIBILITY OF THE
		Ì		MANUSCRIPT
RJP			RJP	RJP
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RJP	F	JP	RJP	хх
40. REVIEWER RJP	· [	ate .2/70	SUPERVISOR, REVIEW SECTION	ON OR UNIT
			Albert C. Rauck	, Jr.
41. REMARKS (See attached she	et)			
FIELD COMPLETION ADDITION 42. Additions and corrections	s furnished by th	e field complet	IANUSCRIPT ion survey have been applied t	o the manuscript. The manu-
script is now complete ex	Vistop		SUPERVISOR	.1
A.L. Shands		1/2/71	Albert C. Rauck	ranch fr.
eviewer: B.L. Bar G.REMARKS	rge 1	1/4/71	Albert C. Rauck	, Jr. '
		From: fi	eld edit ozalid and	d field
ratio 64 M-36	666			

#### FIELD EDIT REPORT

MAP T-12776

Glacier Bay

Field edit of map T-12776 was accomplished during August, 1970. Inspection was done from a launch following hydrographic survey.

#### METHOD

The shoreline features and mean high water line were verified by visual comparison of the shore area to the field ratio photographs and field edit ozalid of the map manuscript. Notes have been made in violet on the field edit ozalid and cross referenced where necessary to field ratio photograph 64M3666. Unless otherwise indicated all shoreline features are correct as interpreted.

All times are based on meridian 105° W.

#### ADEQUACY OF COMPILATION

Compilation of the map is good. Hydrographic location of features compares well to photogrammetric location. Corrections and additional identifiable features have been indicated on the field edit ozalid and photographs.

Field inspection of the map is complete.

#### RECOMMENDATIONS

It is recommended that the map be revised in accordance with the notes and be accepted as an advance manuscript.

Respectfully submitted,

Martin R Mulham

Martin R. Mulhern

LTJG, USESSA

# TRANSMITTAL SHEET

Preparation of these reports was done under the supervision of this Command and was found to be accurate and complete.

John B. Watkins, Jr. CAPTAIN, USESSA Commanding Officer USC&GSS FAIRWEATHER

#### REVIEW REPORT T-12776

#### SHORELINE

June 26, 1976

#### 61. GENERAL STATEMENT:

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

No comparison print was made for this map.

#### 62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

No registered topographic surveys were available for comparison.

#### 63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER (C-2), ALASKA, scale 1:63,360, dated 1950. No significant differences were noted.

#### 64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a verified copy of the smooth sheet for Survey H-9139 (FA-20-4-70), scale 1:20,000, dated 1970. No significant differences were noted.

#### 65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8202, scale 1:209,978, 18th edition, dated Nov. 23, 1973. No significant differences were noted. The chart scale is too small for an adequate comparison.

#### 66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This survey complies with job instructions and meets Bureau Standards and the requirements for National Standards of Map Accuracy.

Reviewed by:

Charles H. Bishop

Charles H. Bishop Cartographer 26 June 1975

Approved for forwarding:

Victor E. Serena

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.