7-12770

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey	Shorel:	ine
		Map No. T-12770
Classification No.		Edition No1
Field Edited		
L	OCALIT	Y
State Alaska,		• • • • • • • • • • • • • • • • • • • •
General Locality . Gla	ciery l	Bay
Locality Glacie	r Bay,	North Shore
19 6	4 TO	19 7 0
REGISTE	RY IN AF	RCHIVES
DATE	,	,

☆U.S. GOVERNMENT PRINTING OFFICE: 1978-761-775

MAP NOT INSPECTED IN QUALITY CONTROL PRIOR
TO REGISTRATION



NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SURVEY	₩- <u>T-12770</u>
	I = 1	TION NO. (1)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLA	uss 1
	REVISED JOB	_{РН.} 6502
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING MAP EI	
Coastal Mapping Division (Norfolk)	TYPE OF SURVEY JOB	PH
OFFICER-IN-CHARGE	1 <u> </u>	\\$s
* * * * * * * * * * * * * * * * * * *	□ RESURVEY \$URVEY □ REVISED 19	
Jeffrey G. Carlen		
1. INSTRUCTIONS DATED 1. OFFICE	2. FIELD	
		
November 16, 1964	-	
December 18, 1969		
,		i
	·	
II. DATUMS		
I. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	
₹ MEAN HIGH-WATER	OTHER (Specify)	
2. VERTICAL:	1	
MEAN LOWER LOW-WATER MEAN SEA LEVEL		
3. MAP PROJECTION	4. GRID(S)	
Polycónic	Alaska Zone	1
5. SCALE	STATE ZONE	
1:10,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS I, AEROTRIANGULATION BY	G. Ball.	Aug. 1965
METHOD: Analytic LANDMARKS AND AIDS BY		
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: COORdinatograph CHECKED BY		5/70; 4/70
METHOD: COORDINATOGRAPH CHECKED BY 3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	R.R. White A.L. Shands	5/70; 4/70 May, 1970
COMPILATION CHECKED BY	7 0 33 .	May, 1970
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:1,000 CHECKED BY	N.A.	
SCALE: 1:1,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	F.P. Margiotta	June 1970
CHECKED BY	R.J. Pate	June 1970
метнор: Smooth ink drafting contours by	N.A.	
CHECKED BY 1-10 000 NYDRO SUPPORT DATA BY	F.P. Margiotta	June 1970
SCALE: 1:10,000 CHECKED BY	R.J. Pate	June 1970
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R.J. Pate	June 1970
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	A.L. Shands B.L. Barge	Oct. 1971 Oct. 1971
7. COMPILATION SECTION REVIEW BY	B.L. Barge	Oct. 1971
8. FINAL REVIEW BY	C.H. Bishop	June 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		_}
11, MAP REGISTERED - COASTAL SURVEY SECTION BY	n & Francis	ans 26 197
NOAA FORM 75-36A SUPERSEDES FORM C& GS 161 SERIES	* U.S. G.P.O. 1972-	· 7·



IOAA FORM 76-36B 3-72)				NATIONAL OC	FANIC AND	S. DEPARTME	ADMINISTRATI
			T-12770	MATIONAL OC	ernic riib		L OCEAN SURV
		CC	MPILATION	1 SOURCES			
COMPILATION PHO	TOGRAPHY						
CAMERA(S)	RC-9 "M"		TYPES	OF PHOTOGRAPHY		TIME REFE	ERENCE
TIDE STAGE REFERE			-{	LEGEND	ZONE	<u>-</u>	 _
PREDICTED TIDE			(C) COL		J	oific	STANDA
REFERENCE STA			1	X (P) PANCHROMATIC		Pacific MERIDIAN	
TIDE CONTROLLE	D PHOTOGRAF	,н.	(I) INF	RARED	12	o W	DAYLIG
NUMBER AND	TYPE	DATE	TIME	SCALE		STAGE OF	FTIDE
54 M(P) 3 7 63	- 3765	6/12/64	12:32	1:40,00	0 1.9	ft. abov	e MLLW
REMARKS							
SOURCE OF MEAN	HIGH-WATER	LINE:			·		-
	HIGH-WATER		- 1064 I	lial Pair o	£ T	1070 and	·
Field i	nspection	n of August		Field Edit or		1970, and	<u>. </u>
Field i	nspection	n of August		Field Edit o		1970, and	
Field i	nspection	n of August				1970, and	
Field i	nspection	n of August				1970, and	<u>, , , , , , , , , , , , , , , , , , , </u>
Field i	nspection	n of August				1970, and	·
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Field i	nspection	n of August				1970, and	<u> </u>
Field i	nspection	n of August				1970, and	
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Field interest of MEAN Office	nspection erpretation	n of August on of the a	LOW-WATERL	ine: e listed pho	tograph.	S .	·
Field interest of the second o	nspection erpretation tow-water of interpre	on of August on of the a	LOW-WATER L	INE: e listed pho	tograph.	S.	information.)
Field interest of the second o	nspection erpretation	n of August on of the a	LOW-WATER L	ine: e listed pho	tograph.	S.	information.)
Field into office into office office 3. SOURCE OF MEAN Office	nspection erpretation interpre	on of August on of the a	LOW-WATER L	INE: e listed pho	tograph.	S.	information.)
Field into office into office office 3. SOURCE OF MEAN Office 4. CONTEMPORARY SURVEY NUMBER 5. FINAL JUNCTION	nspection rpretation rpretation rpretation rpretation rpretation rpretation rpre	on of Auguston of the a	LOW-WATER L	INE: e listed pho rveys that are sources SURVEY NUMBER	tograph.	S. Summetric survey SURV	information.)
office inte	nspection rpretation rpretation rpretation rpretation rpretation rpretation rpre	on of Auguston of the a	LOW-WATER L	INE: e listed phor	tograph.	S.	information.)

NDAA FORM 76-366 (3-72)	.	T-12770 HISTORY OF FIELD		NIC AND ATMOSPHEI	MENT OF COMMERCE RIC ADMINISTRATION NAL OCEAN SURVEY	
I. X FIELD INSP	ECTION OPE	RATION FIEL	D EDIT OPERATION			
	OP	ERATION	T	IAME	DATE	
1. CHIEF OF FIEL			R.H. Hould		Summer 1964	
2. HORIZONTAL C	CONTROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	None			
3. VERTICAL CON	ITROL	RECOVERED BY ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY	N.A.			
4. LANDMARKS AI AIDS TO NAVIG	ΝĐ	ECOVERED (Triangulation Stations) BY LOCATED (Field Methods) BY IDENTIFIED BY	None			
5. GEOGRAPHIC N INVESTIGATION		TYPE OF INVESTIGATION COMPLETE SPECIFIC NAMES ONLY NO INVESTIGATION				
6. PHOTO INSPEC		CLARIFICATION OF DETAILS BY	W.H. Shear	ouse	Aug. 1964	
7. BOUNDARIES A		SURVEYED OR IDENTIFIED BY	N.A.			
II. SOURCE DATA 1. HORIZONTAL C			2. VERTICAL CON	TROL IDENTIFIED	· · · · · · · · · · · · · · · · · · ·	
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION D	ESIGNATION	
None						
3. PHOTO NUMBERS (Clarification of details)						
64 M(P) 3763 (contact) 4. Landmarks and aids to navigation identified						
THE EARDINANCS A	None	TAYION IDENTIFIED				
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJEC	TNAME	
5. GEOGRAPHIC	NAMES:	REPORT X NONE	6. BOUNDARY AN	D LIMITS: REF	ORT NONE	
7. SUPPLEMENTA	None	PLANS				
8. OTHER FIELD	RECORDS (Sk	etch books, etc. DO NOT list deta submit	tied to the Geodesy D	ivision)		
	Field	Inspection Report.				

NOAA FORM 76-36C (3-72)	T-12770 HISTORY OF FIELD		NIC AND ATMOSPHERI	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY		
I. FIELD INSPECT	TION OPERATION X FIELD	EDIT OPERATION				
	OPERATION	l N		DATE		
I. CHIEF OF FIELD	PARTY	John B. Wat		Summer 1970		
	RECOVERED BY	None				
2. HORIZONTAL CON	TROL ESTABLISHED BY			<u> </u>		
	PRE-MARKED OR IDENTIFIED BY	·		ļ. <u></u>		
	RECOVERED BY	N.A.		<u> </u>		
3. VERTICAL CONTR		<u> </u>		 		
- · · · · · · · · · · · · · · · · · · ·	PRE-MARKED OR IDENTIFIED BY	Ness		<u> </u>		
A LANDMARKS AND	RECOVERED (Triangulation Stations) BY	None	<u> </u>	 		
4. LANDMARKS AND AIDS TO NAVIGAT				- 		
	TYPE OF INVESTIGATION					
5. GEOGRAPHIC NAM						
INVESTIGATION	5PECIFIC NAMES ONLY					
	X NO INVESTIGATION		_			
6. PHOTO INSPECTIO	ON CLARIFICATION OF DETAILS BY	James C. Bi	shop, Jr.	July, 1970		
7. BOUNDARIES AND		N.A.				
II. SOURCE DATA	\$ ⁵	la vention can	The the Title	·		
1. HORIZONTAL CON	TROL IDENTIFIED	2. VERTICAL CON	TROL IDENTIFIED			
PHOTO NUMBER	ST A TION, NAME	PHOTO NUMBER	STATION DE	SIGNATION		
	one					
3. PHOTO NUMBERS (Clarification of details) 64 M(P) 3763 (Ratio)						
	AIDS TO NAVIGATION IDENTIFIED					
	None					
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME		
5. GEOGRAPHIC NAM	ES: REPORT X NONE	6. BOUNDARY AND	D LIMITS: REPO	RT NONE		
	5. GEOGRAPHIC NAMES: REPORT NONE 6. BOUNDARY AND LIMITS: REPORT NONE 7. SUPPLEMENTAL MAPS AND PLANS					
8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division) Field Edit Ozalid, Field Edit Report.						

6/9/70

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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NOAA FORM 76-36D (3-72)T-12770 RECORD OF SURVEY USE MANUSCRIPT COPIES COMPILATION STAGES DATE MANUSCRIPT FORWARDED DATA COMPILED DATE REMARKS MARINE CHARTS HYDRO SUPPORT Compilation complete Advance Manuscript pending field edit June 1970 Superseded Field edit applied, Class I compilation complete Oct. 1971 Superseded Final Review June 1975 II. LANDMARKS AND AIDS TO NAVIGATION 1. REPORTS TO MARINE CHART DIVISION, NAUTICAL DATA BRANCH CHART LETTER DATE NUMBER REMARKS NUMBER ASSIGNED FORWARDED 2. REPORT TO MARINE CHART DIVISION, COAST PILOT BRANCH. DATE FORWARDED: 3. TREPORT 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 557 SUBMITTED BY FIELD PARTIES. 3. SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION II, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:

		be completed each time a new i	ap euition is regist		2	
	SURVEY NUMBER	JOB NUMBER	_	TYPE OF		
SECOND	TP (2)	PH		REVISED	RESURVEY	
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS			
]111. □ IV.	□v. □ F:	NAL
	SURVEY NUMBER	JOB NUMBER		TYPE OF	SURVEY	
THIRD	TP (3)	PH		REVISED	RESURVEY	
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	7	MAPC	LASS	
	•]nı. □ıv.	□v. □ FI	NAL
	SURVEY NUMBER	JOB NUMBER		TYPE OF	SURVEY	
FOURTH	TP(4)	PH		REVISED	RESÜRVEY	
	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	7	MAPC	LASS	
EDITION		1		lıır. ⊟ıv.	□v. □FI	NAI.



JOB PH-6502 GLACIER BAY ALASKA

Shareline Mapping

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-127,70

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 in August 1964. No horizontal control was recovered or identified within the area of 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, using the Wild B-8 stereoplotter, 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. Photography were taken near low tide.

Field edit was done in conjunction with hydrography in July 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 in 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.

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 - 644 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

The same

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, ELSE, 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.

3. Cont.

One required station could not be found. In place of it, (DIMGO), 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. VERTICAL 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. Many 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.

9. LANDMARKS

None

10. BOUNDARIES, MONUMENTS AND LINES
Inapplicable.

11. OTHER CONTROL

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. SUMMARY

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 GETKIE and should consist of a combination of triangulation and electronic traverse.

William H. 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.	•
JIIL 1938	yes	yes	64 N 3692	(enlarg)
NONE 1938	yes	no		
ALUM 1938	yes	no		
TREE 1938	yes	no		
SPIT, 1938	yes	no		
STAR 1938	yes	yes	64 M 3653	(contact)
EVER 1939	yes	yes	64 M 3661	(enlarg)
EISE 1939	yes	yes	64 M 3649	(enlarg)
VENT 1939	yes	no	• • • • • • • • • • • • • • • • • • •	
SINK 1939	yes	no		<i>:</i>
FRANK 1939	yes	no ~		
OPEN 1939	yes	yes	64 м 3649	(contact)
GOLD 1939	yes	no #		
JUST 1939	yes	no	•	
DUCE 1939	yes	no		
ENTER 1939	уев	no 🦙		
KILL 1939	yes	ne	•	
DRAKE 1939	yes į	yes	64 м 3648	(contact)
RIDGE 1939	yes	no		
DESERT 1944	yes	yes	64 M 3746	(enlarg)
KELP 1944	yes	no	, a second	
Л ИВО 1944	yes	no		•
MID 1944	уев	no		
BUTE 1944	yes	no		

STATION NAME	RECOVERED	IDENTIFIED	PHOTO NO.
VEIN 1944	yes	no	
ROUND ?	yes ;	no	
SNOW 1944	yes	no	
BALD 1944	yes	no	:
KNOB 1944	yes	yes	64 M 3749 (contact)
DINGO 1944	no	•	
CUBE 1944	yes	yes	64 M 3750 (enlarg)
POINT 1944	yes	no	
FOX 1944	yes	no	•
MINK 1944	уез	no	
ARCH 1944	yes	уев	64 M 3685 (enlarg)
RAMPART 1944	уез	₩0 ¥00	
FLAT 1939	уев	yes	64 M 3666 (enlarg)
HUGH MILLER W BASE	no		
HUGH MILLER E BASE 1907/1944	yes	yes	64 M 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	уев	no	contact
RANA 1964	yes	уев	64 M 3669 (松野 (
ACE 1964	yes	yes	64 M 3765 (contact)
FLAG 1944	yes	no	
NORTE 1939	yes	no	
QUICK 1939	уов	po	

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. <u>Method</u>

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

rar, 1939

Ties to Strip #2

STRIP #2

JILL, 1938

EVER, 1939

STRIP #3

LSE, 1939

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

> (=0.5 +0.3) (-2.8 +1.0)

Tie points to Strip #3

Tie points to Strip #4

STRIP #6

TLINGIT, 1939

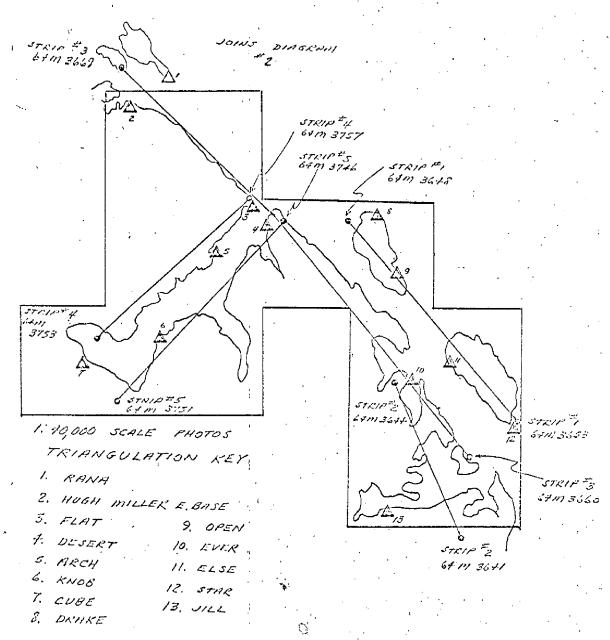
DONE, 1939

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

ACE, 1964

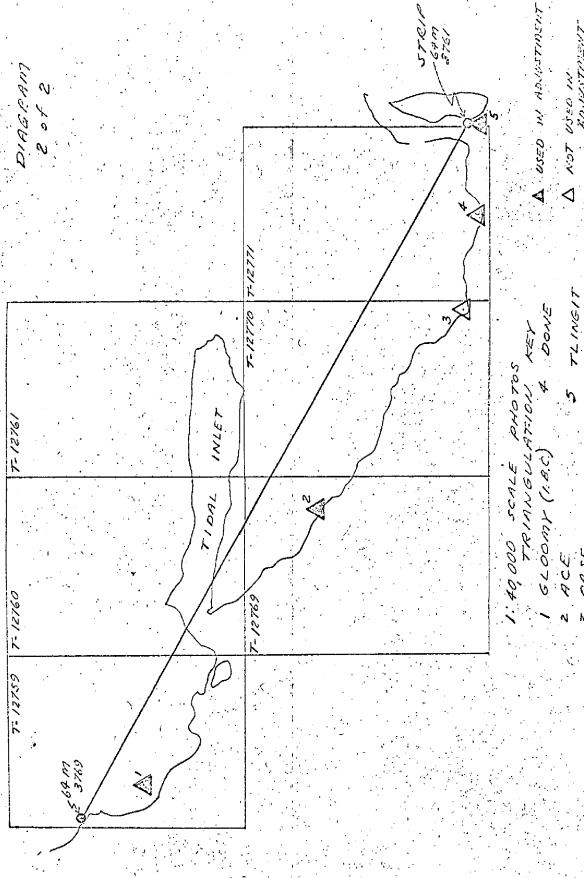
GLOOMY, 1907

GLACIER BAY
DIAGRAM



L USED IN ADJUSTMENTS

A NOT USED IN ADJUSTMENTS





DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12770 PRO	PROJECT NO.		807	SCALE OF MAP 1:10,000 SCAL	SCALE FACTOR NODE
STATION		SOURCE OF INFORMATION (INDEX)	ратим	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)
			N.A.	58 ⁰ 46' 54.12050"	1674.7 (181.9)
EAGLE, 1944		Pg. 1038	1927	136 19; 30.06567"	483.0 (481.1)
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				Ve delication	7. A.
Computed By C. Blood		4/24/70		cwecked by R. White	4/24/70

COMPILATION REPORT

T-12770

31. DELINEATION

The Wild B-8 plotter was used. Photographic coverage was adequate. Delineation was accomplished by use of field inspection notes and office interpretation of the photographs.

32. CONTROL :

See "Photogrammetric Plot Report", dated August, 1965.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours were inapplicable. Drainage was office interpreted and compiled by the Wild B-8 plotter.

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line, lower low water line and alongshore details were compiled by the Wild B-3 plotter using field inspection and office interpretation of the photographs.

36. OFFSHORE DETAILS

No statement

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

A satisfactory junction was made with T-12769 to the west and T-12771 to the east. There was no detail along junctions with T-12761 to the north and T-12777 to the south.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

41. FIELD EDIT

Field edit was adequate.

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. Quadrangle MT. FAIR-WEATHER (D-1), ALASKA, scale 1:63,360, dated 1948.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with USC&GS Chart 8202, STEPHENS PASSAGE TO CROSS SOUND, scale 1:209,978, dated October 21, 1968 15th edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Frank P. Margiotta

Cartographer, June 3, 1970

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

28 March 1975

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12770

Glacier Bay

Glacier Bay National Monument

Approved by:

Chas. E. Harrington Staff Geographer-C51x2

NOAA FORM 75-74			U	S. DEPARTMENT OF COMMERCE
(2-74)	RIC OFFICE REVIEW	NOAA NATIONAL OCEAN SURVEY		
	FILO	T-12		
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
			,	DID
RJP	RJP		RJP	RJP
CONTROL STATIONS				T DUATE HYDDO STATIONS
5. HORIZONTAL CONTROL STA THIRD-ORDER OR HIGHER A	CCURACY	OF LESS TH (Topographic	LE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY stations)	7. PHOTO HYDRO STATIONS
RJP		(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	χχ	χх
8, BENCH MARKS	9. PLOTTING C	F SEXTANT	10. PHOTOGRAMMETRIC PLOT REPORT	11. DETAIL POINTS
χχ	χх		RJP	RJP
ALONGSHORE AREAS (Nautical	Chart Date)		J <u>.</u>	
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
RJP	RJP		RJP	хх
16. AIDS TO NAVIGATION	17. LANDMARK	S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
χх	хх		RJP	χх
PHYSICAL FEATURES	<u>. </u>		<u> </u>	
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
RJP			хх	хх
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	I IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
X X	. x x		χχ	RJP
CULTURAL FEATURES	1			
27. RO ADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
хх	хх		x x	χх
BOUNDARIES	<u> </u>		<u> </u>	
31. BOUNDARY LINES	х х	** =	32. PUBLIC LAND LINES	хх
-		·-··		
MISCELL ANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	S	. 35. LEGIBILITY OF THE
D.*.D			D.T.D.	MANUSCRIPT
RJP	140	ļ	RJP	RJP
36. DISCREPANCY OVERLAY	37. DESCRIPT	IVE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RJP	RJP	_	RJP	χχ
40. REVIEWER and 167 for R.J. Pate	sichop (Date		ON OR UNIT
for R.O. Pate	. 6	/6//0	Albert C. Rauck.	Rauck. J.
41. REMARKS (See attached she			<u> </u>	
FIELD COMPLETION ADDITIO		TIONS TO THE	MANUSCRIPT	
42. Additions and correction script is now complete ex	s furnished by the	he field completeder item 43.	tion survey have been applied	to the manuscript. The manu-
COMPILEBLIANCES /	Bishot	Date 10/27/71	SUPERVISOR PRAT C.	Ranck.
معر A.L. Shands Reviewer: B.L. Ba	rae	10/27/71	Albert C. Rauck	., Jr.
43. REMARKS	- 90	10/20/11	<u> </u>	
	dit Applie	d From:	Field edit ozalid a	and field ϕ
ratio 6	4 M 3763			
1				

FIELD EDIT REPORT

Map T-12770

Glacier Bay

Field edit of map T-12770 was accomplished from a launch during July, 1970.

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 64M3763. 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. One ledge indicated should be deleted from the manuscript, and corrections should be applied to the character of foreshore materials in several areas. Corrections and additional identifiable features have been indicated on the field edit ozalid and photos.

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,

James C. Bishop, Jr.

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-12770

SHORELINE

June 1975

61. GENERAL STATEMENT:

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

A comparison print, showing differences noted in Par. 64, is bound with the original of this report.

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 (D-1), ALASKA, scale 1:63,360, dated 1954. 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. Significant differences were shown in purple on the comparison print.

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 adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

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

Reviewed by:

Charles H. Bishop

Charles H. Bishop Cartographer 12 June 1975

Approved for forwarding:

Victor E. Serena

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

Chief, Coastal Mapping Div.

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-2,54 5,000 Ft.			
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		Pu	rple = H-9139
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			4
46'00"			T-12770
			1:10,000

