## 7-12777

## T-12777

### NOAA FORM 76-35

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

### DESCRIPTIVE REPORT

Type of Survey	Shorelin	e
		Map No. T-12777
Classification No.		Edition No
Field Edited	d	
	LOCALIT	Y
State Alaska	, , , , , , , , , , , , , , , , , , , ,	
General Locality G	lacier B	ay
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196	64 <b>TO</b>	<b>19</b> 70
REGIS:	TRY IN AR	CHIVES
DATE	• • • • • • • • • • • • • • • • • • • •	

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



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 TRX 12777	
	<b>E</b> K ORIGINAL	MAP EDITION NO. (1)	,
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS ]	
DESCRIPTION OF THE RELIGIOUS	REVISED	JOB PH. 6502	
PHOTOGRAMMETRIC OFFICE	<u> </u>		
Coastal Mapping Division (Norfolk)	TYPE OF SURVEY	JOB PH-	l
	D ORIGINAL	MAP CLASS	
OFFICER-IN-CHARGE	RESURVEY	SURVEY DATES:	
Jeffrey G. Carlen	REVISED	19TO 19	
I. INSTRUCTIONS DATED			
1. OFFICE	2.	FIELD	
N 3 - 10 - 1004	]		j
November 16, 1964			
December 18, 1969			
II. DATUMS	OTHER (Specify)		$\dashv$
1. HORIZONTAL:   1927 NORTH AMERICAN	124.7	_	
∑ MEAN HIGH-WATER	OTHER (Specify)	<del></del>	
MEAN LOW-WATER  2. VERTICAL: MEAN LOWER LOW-WATER	ĺ		ľ
MEAN SEA LEVEL			
3. MAP PROJECTION	4. (	GRID(S)	┪
D. T. C.	STATE	ZONE	
Polyconic	Alaska	11	
1:10,000	STATE	ZONE	l
III. HISTORY OF OFFICE OPERATIONS	<u></u>	<u> </u>	一
OPERATIONS	NAME	DATE	
I. AEROTRIANGULATION BY	G. Ball	Aug., 190	<u>65</u>
METHOD: Analytic LANDMARKS AND AIDS BY	None B. Wilson	Marr 10:	70
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: COORdinatograph CHECKED BY	C. Blood	May, 19 May, 19	
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	A. Shands	Apr., 19	
COMPILATION CHECKED BY	A. Rauck	Apr., 19	
INSTRUMENT: Wild B-8 CONTOURS BY	N.A.		
scale: 1:15,000 CHECKED BY			
4. MANUSCRIPT DELINEATION PLANIMETRY BY	B. Wilson	May, 19	_
CHECKED BY	A. Rauck	May, 19	70
метнор: Smooth ink drafting contours by	N.A.		$\dashv$
and graphic CHECKED BY	B. Wilson	May, _19	70
SCALE: 1:10,000 CHECKED BY	A. Rauck	May, 19	$\overline{}$
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	A. Rauck	May, 19	
6. APPLICATION OF FIELD EDIT DATA	B. Barge	Nov., 19	71
CHECKED BY	A. Shands A. Shands	Nov., 19 Nov., 19	_
7. COMPILATION SECTION REVIEW BY 8. FINAL REVIEW BY	C. Bishop	June, 19	_
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY		Jane, 15	
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY			$\dashv$
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	n. J. Francis	Gua. 26 19	22 <b>3</b>



		CO:		SOURCES			
1. COMPILATION PHO	TOGRAPHY						
camera(s) Wild R	.C-9 "M"	·		F PHOTOGRAPHY LEGEND	_ j	TIME REI	FERENCE
TIDE STAGE REFERENCE JUNEAU		1		ZONE	<u>[</u>		
N PREDICTED TIDES			(C) COLOR			cific	STANDA
TREFERENCE STATE			X (P) PANCHROMATIC (I) INFRARED		MERIDI		☐ DAYL IGH
NUMBER AND		DATE	TIME	SCALE		0 W stage	DF TIDE
64 M(P) 3665		6/12/64	10:06	1:40,00	0 4.0		low MLLW
• '							
54 M(P) 3 <b>7</b> 57		6/12/64	12:19	1:40,00	0   1.0	ft. ab	ove MLLW
REMARKS There	was no pl	 hotographic	coverage	for Lone I	sland.		<u> </u>
	15,1						
	d Photo 6	LINE: 64 M(P) 3666 s and Field			sland)		
Fiel	d Photo 6	64 M <b>(</b> P) 3660			sland)		
Fiel	d Photo (	64 M <b>(</b> P) 3666 s and Field	Edit Oza	lid (Lone I	sland)		
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NOAA FORM 76-36C (3-72)	T-12777 History of Field		NIC AND ATMOSPHER	MENT OF COMMERCE IIC ADMINISTRATION NAL OCEAN SURVEY
I. X FIELD INSPECTION	DPERATION FIEL	D EDIT OPERATION		
	OPERATION	N N	AME	DATE
1. CHIEF OF FIELD PARTY	Y	R.H. Hould		Summer 1964
2. HORIZONTAL CONTROL	PRE-MARKED OR IDENTIFIED BY			
3, VERTICAL CONTROL	NONE ESTABLISHED BY			
4. LANDMARKS AND AIDS TO NAVIGATION	RECOVERED (Triangulation Stations) BY  LOCATED (Field Methods) BY  NONE IDENTIFIED BY  TYPE OF (NVESTIGATION			
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE SPECIFIC NAMES ONLY  On investigation			
6. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY	W.H. Sheard	ouse	
7. BOUNDARIES AND LIMIT	S SURVEYED OR IDENTIFIED BY	N.A.		
II. SOURCE DATA  I. HORIZONTAL CONTROL		2. VERTICAL CON	TROL IDENTIFIED	
PHOTO NUMBER	STATION NAME	PHOTO NUMBER	STATION DE	SIGNATION
3. PHOTO NUMBERS (Clarit	lication of details)	<u></u>		
	(P) 3665 & 375 <b>7</b>			
4. LANDMARKS AND AIDS	TO NAVIGATION IDENTIFIED			
Duoto Nilvero	None	T		
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJEC.	NAME
5. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND	LIMITS: REP	ORT X NONE
7. SUPPLEMENTAL MAPS	<del></del>			<u> </u>
	None			
	(Sketch books, etc. DO NOT list data submit	tted to the Geodesy Di	vision)	

NOAA FORM 76-36C

U. S. DEPARTMENT OF COMMERC

(3–72)	•	T-12777 History of Field	NATIONAL OCEANI	U.S, DEPAR C AND ATMOSPHI NAT	TMENT OF CO ERIC ADMINIS IONAL OCEAN	MMERCE TRATION SURVEY
I. TIFIELD INSP	ECTION O	<del></del>	D EDIT OPERATION	<del></del>	· _	
<del>_</del>		OPERATION	NA NA			.TE
		OF CIVIL 1901			Summe	
1. CHIEF OF FIEL	LD PARTY		J.B. Watkins		1970	
		RECOVERED BY	J.B. Watkins	3	Aug.	1970
2. HORIZONTAL (	CONTROL	ESTABLISHED BY			<del></del>	3030
		PRE-MARKED OR IDENTIFIED BY	J.M. Winter	nyre	Aug.	1970
		RECOVERED BY	NA			
3. VERTICAL CO	NTROL	ESTABLISHED BY				
		PRE-MARKED OR IDENTIFIED BY				. <u> </u>
		RECOVERED (Triangulation Stations) BY	None			
4. LANDMARKS A AIDS TO NAVIG		LOCATED (Field Methods) BY	None			
AIDS TO NAVIO		IDENTIFIED BY				
		TYPE OF INVESTIGATION	1			
5. GEOGRAPHIC		COMPLETE BY				
INVESTIGATIO	N	SPECIFIC NAMES ONLY				
· · · · · · · · · · · · · · · · · · ·		X NO INVESTIGATION				7070
6. PHOTO INSPEC	TION	CLARIFICATION OF DETAILS BY	J.M. Winter	nyre	Aug.	1970
7. BOUNDARIES A	ND LIMIT		NA	·		
II. SOURCE DATA		<u> </u>				
1. HORIZONTAL	CONTROL	IDENTIFIED -	2. VERTICAL CONT	ROL IDENTIFIED		
PHOTO NUMBER		STATION NAME	PHOTO NUMBER	STATION	DESIGNA TION	
64 M 3665	FLAG	1944				
64 M 3665	GEIKI	Ë 1939				
						<u>-</u>
3. PHOTO NUMBE	RS (Clarifi	cation of details)				
	64 M	3665 & 3666				
4. LANDMARKS A		O NAVIGATION IDENTIFIED		<u> </u>		
	None					*
PHOTO NUMBER		OBJECT NAME	PHOTO NUMBER	OBJE	CTNAME	

5. GEOGRAPHIC NAMES: REPORT 6. BOUNDARY AND LIMITS: REPORT NONE MONE

7. SUPPLEMENTAL MAPS AND PLANS

None

8. OTHER FIELD RECORDS (Sketch books, etc. DO NOT list data submitted to the Geodesy Division)

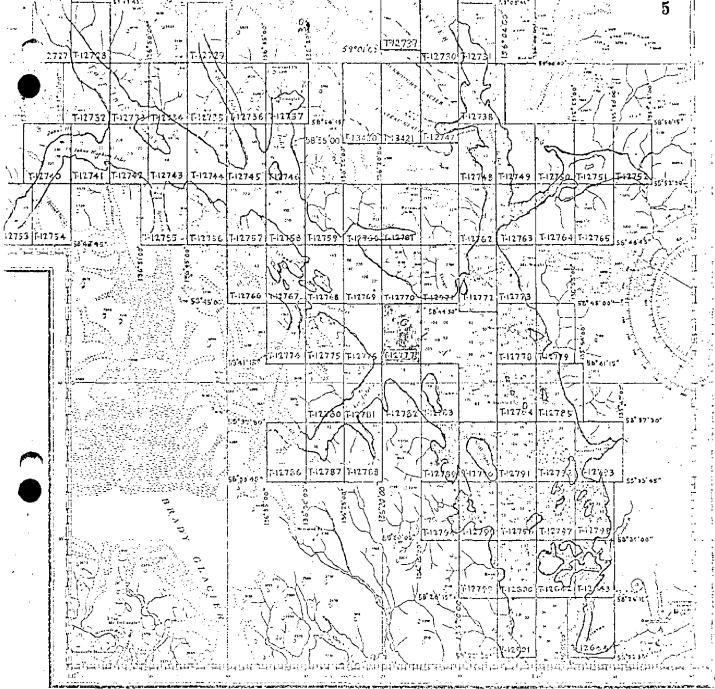
Field Edit Report and Field Edit Ozalid.

NOAA FORM 76-36D (3-72)

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

T-12777

			RECO	RD OF SURVE	Y USE			
I. MANUSCR	IPT COPIES							
! }	cc	MPILA	TION STAGE	s			DATE MANUSCRI	PT FORWARDED
0/	ATA COMPILED	<u> </u>	DATE	RE	MARKS		MARINE CHARTS	HYDRO SUPPORT
	tion complete field edit	May	, 19 <b>7</b> 0	Supers	eded			5/21/ <b>7</b> 0
	dit applied tion complete	Nov	, 1971	Supers	eded			
Final R	eview	Jur	ie 1975					
	RKS AND AIDS TO NAVIGA							·
1. REPO	RTS TO MARINE CHART D	IVISIO:	N, NAUTICAL	DATA BRANCH				
NUMBER	CHART LETTER NUMBER ASSIGNED	FC	DATE RWARDED			REMA	RKS	
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		<del> </del>						
			-					
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2. R	EPORT TO MARINE CHAR	1 T DIVI:	SION, COAST	PILOT BRANCH.	DATE FORM	WARDED:		
	EPORT TO AERONAUTICA							
III. FEDERA	L RECORDS CENTER DA	TA						
<ol> <li>BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.</li> <li>CONTROL STATION IDENTIFICATION CARDS; FORM NOS 567 SUBMITTED BY FIELD PARTIES.</li> <li>SOURCE DATA (except for Geographic Names Report) AS LISTED IN SECTION 11, NOAA FORM 76-36C. ACCOUNT FOR EXCEPTIONS:</li> </ol>								
4.	ATA TO FEDERAL RECO	RDS CI	ENTER. DAT	E FORWARDED:				_
IV. SURVEY	EDITIONS (This section	shall b	completed et	ech time a new mai	edition is re	egistered)	<u></u>	
	SURVEY NUMBER		JOB NUMBE				TYPE OF SURVEY	
SECOND	TP -	_ (2)	PH			∐ RE\	'ISED ∐ RES	SURVEY
EDITION	DATE OF PHOTOGRAP	нү	DATE OF FI	ELD EDIT	<b>□</b> π,	□m.	MAP CLASS □ IV. □ V.	FINAL
	SURVEY NUMBER		JOB NUMBE	R	·····		YPE OF SURVEY	
THIRD	TP	_ (3)	PH			∐ REV		URVEY
EDITION	DATE OF PHOTOGRAP	HY	DATE OF FI	ELD EDIT	<b>□</b> 11.	□m.	MAP CLASS □iv. □v.	FINAL
	SURVEY NUMBER		JOB NUMBE	R		Ť	YPE OF SURVEY	
FOURTH	TP	_ (4)	PH			REV	ISED RES	ŬRV£Y
EDITION	DATE OF PHOTOGRAP	нү	DATE OF FI	ELD EDIT	∏n.	m	MAP CLASS	[] FINAL



REVISED 9-5-72 RNW

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SCALE 1:10,000



### SUMMARY TO ACCOMPANY

### DESCRIPTIVE REPORT T-12777

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. Two horizontal control stations used to strenghten compilation were identified by the field editor in August, 1970.

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 July and August, 1970. Shoreline around Lone Island, which was not covered by mapping photography, was located by sextant fix on Survey H-9139 (FA-20-4-70), transferred to the Field Edit Ozalid, and from the ozalid to T-12777.

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 - 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.

### 3. 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. <u>VERTICAL</u> 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 GETRIE and should consist of a combination of triangulation and electronic traverse.

William H. Shearewa

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	уев	yes	64 M 3692 (emlarg)
NONE 1938	yes	no	
ALUN 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)
ELSE 1939	yes	yes	64 M 3649 (enlarg)
VENT 1939	yes	no	
SINK 1939	yes	no	
FRANK 1939	yes	no -	
OPEN 1939	yes	yes	64 M 3649 (contact)
GOLD 1939	yes	no	
JUST 1939	yes	no	
DUCE 1939	yes	no	
ENTER 1939	yes	no	
KILL 1939	yes	ne .	
DRAKE 1939	yes	yes	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	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	· · · · · · · · · · · · · · · · · · ·	
CURE 1944	yes	yes	64 M 3750 (enlarg)
POINT 1944	yes	no	
FOX 1944	yes	no .	· ·
MINK 1944	yes	no	
ARCH 1944	yes	yes	64 M 3685 (enlarg)
RAMPART 1944	yes	₩0 ₩00	
FLAT 1939	yes	уев	64 M 3666 (enlarg)
HUGH MILLER W BASE 1907	no		
HUGH MILLER E BASE 1907/1944	yes	уes	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	yes	no	contact
RANA 1964	yes	yes	64 M 3669 (海洋研发)
ACE 1964	yes ,	yes	64 M 3765 (contact)
FIAG 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. Elchert

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
              (+1.2 -5.8)
(-1.9 +1.1)
      SS#1
      SS#2
 ARCH, 1944
      SS#1
SS#2
            (+0.8 +1.2)
(+3.8 +0.3)
 DESERT, 1944
              (+2.7 +0.9)
(+2.8 +2.7)
      SS#1
      $$#2
FLAT, 1939
      SS#1
              (+0.5
(-2.3
   STRIP #5
DESERT, 1944
     SS#1
              (+0.6 - 1.0)
   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#1
KNOB, 1944
     SS#1
              (+2.5 -8.4)
(+1.6 -0.9)
     SS#2
CUBE, 1944
```

SS#1

(-0.5 (-2.8

+1.0)

Tie points to Strip #3

Tie points to Strip #4

STRIP #6

TLINGIT, 1939

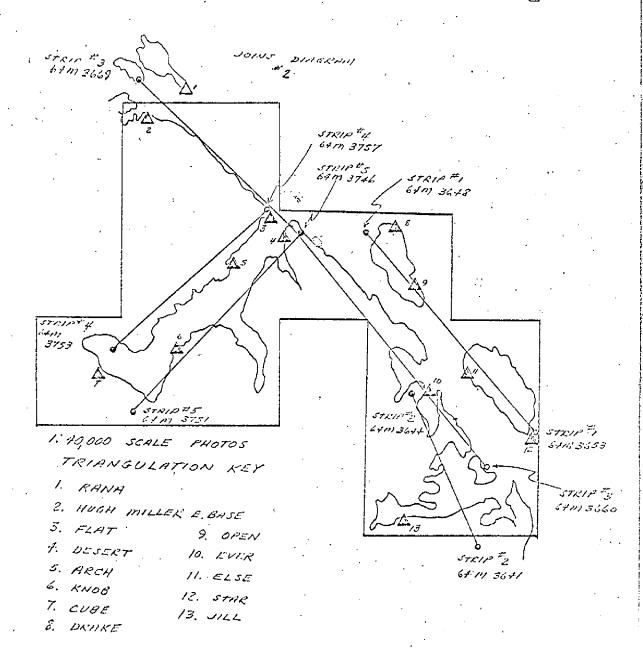
DONE, 1939

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

ACE, 1964

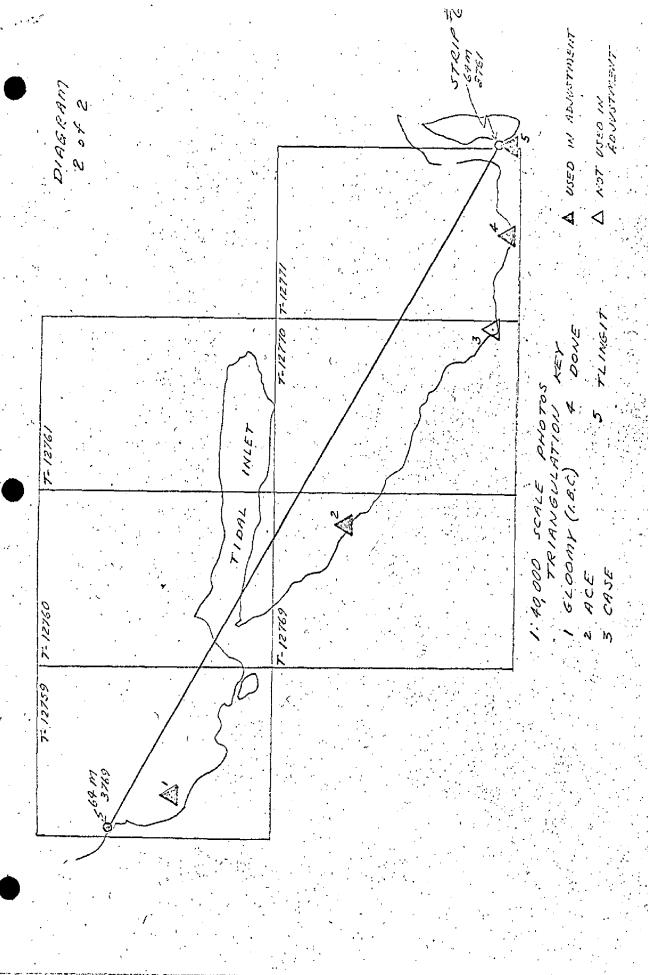
GLOOMY, 1907

GLACIER BAY
DIAGRAM
1 of 2



A USED IN ADJUSTMENTS

A NOT USED IN ADJUSTMENTS



	C& GS- 164}
<u>\$</u>	OF MR
FORM 76-4	USCOMM-DC 34168-P71 (FORMERLY
NOAA	USCO 34168 (FOR

# DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12777 PROJECT NO.	T NO. PH-6502		SCALE OF MAP 1:10,000 SCALE	SCALE FACTOR None
STATION	SOURCE OF INFORMATION (INDEX)	MUTAO	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 (8ACK)
FLAG, 1944	G.P. Vol. 3 Pg. 854	N.A. 1927	58 <sup>0</sup> 41' 57.203" 136 <sup>0</sup> 18' 05.346"	1770.0 (86.5) 86.1 (880.2)
GEIKIE, 1939	G.P. Vol. 3 Pg. 791	N.A. 1927	41.1	
LONE, 1939	G.P. Vol. 3 Pg. 805	N.A. 1927	431	634.1 (1222.4) 573.2 (392.5)
	2000			
C. Blood	DATE . 4/24/70		CHECKED BY R. White	DATE 4/24/70 23

### COMPILATION REPORT

### T-12777

### 31. <u>DELINEATION</u>

Delineation was a combination of Wild B-8 plotter work and graphic work.

Field inspection was adequate for the area covered by the photos.

### 32. CONTROL

See "Photogrammetric Plot Report", dated August 1965.

### 33. SUPPLEMENTAL DATA

None

### 34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage - none.

### 35. SHORELINE AND ALONGSHORE DETAILS

Field inspection was adequate for the shoreline and along-shore details.

### 36. OFFSHORE DETAILS

None

### 37. LANDMARKS AND AIDS

None

### 38. CONTROL FOR FUTURE SURVEYS

None

### 39. JUNCTIONS

There are only water junctions with TP-12770 to the north, TP-12776 to the west and TP-12782 to the south. There is no contemporary survey to the east which is also open water.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No statement

### 41. FIELD EDIT

The field edit was adequate.

### 46. COMPARISON WITH EXISTING MAPS

Comparison was made with U.S.G.S. Quadrangle MT. FAIR-WEATHER (C-1), ALASKA, scale 1:63,360, dated 1949.

### 47. COMPARISON WITH NAUTICAL CHARTS

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

### ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY:

None

### ITEMS TO BE CARRIED FORWARD:

Lone Island Shoreline.

Respectfully submitted:

Charles & Bishop

For B. Wilson, 19 May 1970 Cartographic Technician

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section, AMC

28 March 1975

### GEOGRAPHIC NAMES

### FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12777

Geikie Rock

Glacier Bay

Glacier Bay National Monument

Lone Island

Approved by:

Chas. E. Harrington Staff Geographer-C51x2

### 49- NOTES FOR THE HYDROGRAPHER

An edge of LONE ISLAND appears on photo 64M-3757, otherwise there is no photo coverage for the northeasterly half of this manuscript. All details of this island area and other uncharted details will require mapping by survey methods.

None of the three triangulation stations were identified by field methods. Station FLAG, 1944 was office identified and used on conjunction with the two shoreline pass points (one near FLAG, 1944, and the other on GEIKIE ROCK) for the delineation of the two islands. The delineation and position of these two islands should be verified while surveying LONE ISLAND.

FLAG 1944 and GEIKE 1939 were identified on Photo 64 M 3665 on Aug. 7, 1970 by the field editor.

C.H.B.
6-27-75

<b>NOAA</b> FORM <b>75-74</b> (2-74)				U.S. DEPARTMENT OF COMMERCINOAL NATIONAL OCEAN SURVE
	PHO	TOGRAMMET	TRIC OFFICE REVIEW	MATIONAL OCEAN SURVE
		<b>T-</b> 1	2 <b>777</b>	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
CONTROL STATIONS				
5. HORIZONTAL CONTROL STA	TIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS HAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
THIRD-ORDER OR HIGHER A	CCURACY	(Topographi	HAN THIRD-ORDER ACCURACY ic stations)	x x
8, BENCH MARKS	9. PLOTTING	OF SEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS
	FIXES		PLOT REPORT	
ALONGSHORE AREAS (Nautical	Chart Data)	·		
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15. BRIDGES
				]
16. AIDS TO NAVIGATION	17. LANDMARK	(\$	18. OTHER ALONGSHORE	19. OTHER ALONGSHORE
			PHYSICAL FEATURES	CULTURAL FEATURES
PHYSICAL FEATURES	<u> </u>			
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOUR
		\ x	X	x x
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	<u> </u>	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
χχ	) х	χ	x x	
CULTURAL FEATURES	<u> </u>		<u></u>	
27. ROADS	28. BUILDINGS	<u> </u>	29. RAILROADS	30. OTHER CULTURAL FEATURES
BOUNDARIES	<u></u>			
31. BOUNDARY LINES X	χ		32. PUBLIC LAND LINES	χχ
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION	IS	35. LEGIBILITY OF THE
				MANUSCRIPT
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION	39. FORMS
			PHOTOGRAPHS	
40. REVIEWER	<u> </u>	<del></del>	SUPERVISOR, REVIEW SECT	TION OR UNIT
41. REMARKS (See attached shee	(1)			
FIELD COMPLETION ADDITION	S AND CORREC	TIONS TO THE	MANUSCRIPT	
<ol> <li>Additions and corrections script is now complete exc</li> </ol>	fumished by the ept as noted un	ie field comple der item 43.	tion survey have been applied	d to the manuscript. The manu-
COMPILER Charles 813	, –	ate	SUPERVISOR	Ones hall
B.L. Barge	1.	1/4/71	! albat C. A	auch-yr
Meviewer: A.L. Sha	nds 1.	1/5/71	Albert C. Rauck	, Jr. /
43. REMARKS Field Edit		From: Fi it Ozalid	eld Photos 64 M 36 T-12 <b>777</b> .	65-66, and

### FIELD EDIT REPORT

MAP T-12777

Glacier Bay

Field edit of this manuscript was accomplished during July and August 1970, from a skiff.

### METHODS

Compiled shoreline detail and map features were verified by visual comparison to the field edit ozalid and field ratio photos.

Notes have been made on the field edit sheet in purple and cross referenced to appropriate field photos.

Sextant fixes were taken at the key points around Lone Island with distances and bearings to the MHWL.

Station FLAG, 1944 was photo-identified by direct methods. Station GEIKIE, 1939 was photo-identified, both direct and with two substitute stations.

### ADEQUACY OF COMPILATION

Compilation of the map is fairly good. Discrepancies have been noted on the field edit sheet in purple and cross referenced to field ratio photos 64M3665 and 64M3666, and the corrections applied to the photos in violet ink.

There are numerous large boulders around Geikie Rock and when the field edit was accomplished, only those rocks which could be identified at the time were given height data. A foul limit was indicated on the field edit ozalid and field photo.

Station GEIKIE, 1939 and two substitute stations were photo-identified. This should provide an adequate basis for mapping the island photogrammetrically as indicated in the "Notes for the Hydrographer" for this map.

Station FLAG, 1944 was photo-identified direct on the field ratio photos and compares very well with the office photo-identification.

The MHWL was located around Lone Island by taking sextant fixes and distances at key points around the island. There is a small ledge on the southwest point of the island as indicated on the field edit sheet. In general the water is quite deep, right up to the beach, all around the island. However when navigating within 50 meters of the island, caution should be exercised since there are some boulders and rocks around the island.

Field inspection of the manuscript is complete.

### RECOMMENDATIONS

It is recommended that the map be revised in accordance with the corrections indicated and photo data supplied, and be accepted as an Advance Manuscript.

Respectfully submitted,

James M. Wintermyre

LCDR, 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-12777

### SHORELINE

### June 27, 1975

### 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. Quandragle MT. FAIRWEATHER (C-1), ALASKA, scale 1:63,360, dated 1949. 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. The mean high water line for Lone Island on H-9139 does not agree with the same feature on T-12777. Sextant fixes plotted around Lone Island on H-9139 fall on the MHWL indicated on the Field Edit Ozalid, which is the source of the MHWL mapped on T-12777.

### 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

Cartographer 27 June 1975

Approved for forwarding:

Victor E. Sérena

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Div.