12744

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shoreline. Job No PH-6502	
Classification No.	Edition No1
Field Edited	
LOCALIT	Y
StateAlaska General Locality Glacier I	
Locality . Rendu Inlet, We	est of South End
19 70 TO	
REGISTRY IN AF	

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



NOAA FORM 76-36A (3-72) U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY	SURVEY 1	rp. <u>12744</u>
	☑ ORIGINAL	MAP EDITIO	ои но. ([)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS	;
•	REVISED	JOB F	_{н. 6502}
PHOTOGRAMMETRIC OFFICE	LAST PRECEED		
Atlantic Marine Center	TYPE OF SURVEY		H
OFFICER-IN-CHARGE	ORIGINAL	MAP CLASS	
	RESURVEY	SURVEY DA	
Alfred C. Holmes, RADM - Director	- KEVISED	19TO 19	
I. INSTRUCTIONS DATED			·
1. OFFICE	<u></u>	FIELD	
Aerotriangulation Jan 20, 1972 Compilation - Supp. I Apr. 5, 1972 Compilation - Amend. Apr. 17, 1972			
			· · · · · · · · · · · · · · · · · · ·
II. DATUMS	OTHER (Specify)		
1. HORIZONTAL: 🙀 1927 NORTH AMERICAN	OTHER (Specity)		
	OTHER (Specify)		-
3. MAP PROJECTION	4. (GR(D(S)	
Polyconic	Alaska	ZONE	1
5. SCALE	STATE	ZONE	
1:10,000 III. HISTORY OF OFFICE OPERATIONS		<u> </u>	
OPERATIONS	NAME		DATE
1. AEROTRIANGULATION BY	R. Kelly		Mar 1972
METHOD: Analytical LANDMARKS AND AIDS BY			
2. CONTROL AND BRIDGE POINTS PLOTTED BY METHOD: Coradomat CHECKED BY	D. Phillips D. Phillips		Mar 27/72 Mar 27/72
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	L.O. Neterer, Jr	<u> </u>	Apr $13/72$
COMPILATION CHECKED BY	A.L. Shands & R.		Apr 14/72
INSTRUMENT: Wild B-8 CONTOURS BY SCALE: 1:20,000 CHECKED BY	NA NA		
4. MANUSCRIPT DELINEATION PLANIMETRY BY	L.O. Neterer, Jr	 -	Apr 27/72
CHECKED BY	R.J. Pate		May 3/72
CONTOURS BY	NA .		
CHECKED BY HYDRO SUPPORT DATA BY	NA L.O. Neterer, Jr	<u></u> -	
SCALE: 1:10,000 CHECKED BY	R.J. Pate		May 3/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	R.J. Pate		May 3/72
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	Frank Margiotta G.R. Vanderhaven		Apr 1974 May 1974
7. COMPILATION SECTION REVIEW BY	C.H. Bishop		June 1974
8. FINAL REVIEW BY	C. H. Bishop		JUME 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	(1)		190.1974
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY 11. MAP REGISTERED - COASTAL SURVEY SECTION BY	S. Blankenbaker		Feb. 19.75
	R. CATOR		MAK. 1975



	CO)	T-12744 MPILATION SO		IIC AND ATMOSPHEI	MENT OF COMMERC RIC ADMINISTRATIONAL OCEAN SURVE
1. COMPILATION PHOTOGRAPHY CAMERA(S)					
Wild RC-8 "E"			PHOTOGRAPHY EGEND	TIMERI	EFERENCE
TIDE STAGE REFERENCE		(C) COLOR	~	ZONE	
X PREDICTED TIDES		(P) PANCHR		Pacific	X STANDA
REFERENCE STATION RECORDS		(I) INFRARE		MERIDIAN 120th	DAYLIG
NUMBER AND TYPE	DATE	TIME SCALE			OF TIDE
71 E(C)-4764 - 4767	6/5/71	11:41	1:20,000	12.4 ft. a	
/I L(C)=4/04 = 4/0/	0/3//1	11:41	1:24,000	12.4 10. 8	DOAG LITTM
71 E(C)-4715	6/5/71	11:04	1:20,000	11.4 ft. a	bove MLLW
70 E(C) -7694 & 7695	7/27/70	11:35	1:40,000	10.7 ft. a	bove MLLW
70 E(C)-7700 & 7701	7/27/70	11:45	1:40,000	10.5 ft. a	bove MLLW
1970-E-Color pho	tography, 1	:40,000 sc	ale.		
3. SOURCE OF MEAN LOW-WATER O	DR MEAN LOWER L	OW-WATER LINE:			<u>.</u>
3. SOURCE OF MEAN LOW-WATER O None compiled 4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S)		only those surveys	that are sources for		·
None compiled 4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S)	IC SURVEYS (List	only those surveys	that are sources for		·
None compiled 4. CONTEMPORARY HYDROGRAPH SURVEY NUMBER DATE(S) 5. FINAL JUNCTIONS	IC SURVEYS (List	only those surveys PY USED SUR	that are sources for VEY NUMBER	NATE(S) SU	rey information.) RVEY COPY USED

NOAA FORM 76-36C (3-72)			NATIONAL OCEANIC AND	ATMOSPHERIC		
		.2744)f field	OPERATIONS	NATION/	AL OCEAN SURVEY	
I. X FIELD INSPECT	TION OPERATION	FIELD	EDIT OPERATION			
	OPERATION		NAME DA			
I. CHIEF OF FIELD F	PARTY		J.B. Watkins, J	r. CAPT.	6/6/70	
	RECO	VERED BY	None			
2. HORIZONTAL CON	TROL ESTABL	15HED BY	Non e			
	PRE-MARKED OR IDEN	TIFIED BY	None			
	RECO	VERED BY	NA		<u> </u>	
3. VERTICAL CONTR	OL ESTABL	LISHED BY	<u>NA</u>		<u> </u>	
	PRE-MARKED OR IDEN	TIFIED BY	NA	·		
	RECOVERED (Triangulation S	tations) BY	None		<u> </u>	
4. LANDMARKS AND AIDS TO NAVIGAT	LOCATED (Field M	lethods) BY	None			
	IDEN	TIFIED BY	None		<u> </u>	
	TYPE OF INVESTIGA	I				
5. GEOGRAPHIC NAM INVESTIGATION		BY				
	SPECIFIC NAME NO INVESTIGAT					
			Name		 	
6. PHOTO INSPECTIO			None		<u> </u>	
7. BOUNDARIES AND II. SOURCE DATA	LIMITS SURVEYED OR IDEN	TIFIED BY	None		<u> </u>	
1. HORIZONTAL CON	TROL IDENTIFIED) 	2. VERTICAL CONTROL I	DENTIFIED		
Nor			N. A.			
PHOTO NUMBER	STATION NAME		PHOTO NUMBER	STATION DES	I CALL TI CALL	
3. PHOTO NUMBERS	(Clarification of details)		<u> </u>			
Nor	te :			_		
4. LANDMARKS AND	AIDS TO NAVIGATION IDENTIFIED				. 1	
Nor	ie					
PHOTO NUMBER	OBJECT NAME		PHOTO NUMBER	OBJECT	NAME	
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7. SUPPLEMENTAL N		NE	6. BOUNDARY AND LIMIT	S: REPO	RT NONE	
o						
4 ATHER EIST A PE	None CORDS (Sketch books, etc. DO NOT tis		tool to the Constant District			
O. OTHER FIELD RE	None	i data submit	ea to the Geodesy Division)			
	i i					

NOAA FORM 76-366 (3-72)	c			NATIONAL OCE	U ANIG AND	ATMOSP	HERIC		RATION
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		HISTORY O	FFIELD	OPERATIONS					
I. TIELD INSP	ECTION O	PERATION	₹ FIEL	EDIT OPERATIO	М				
		OPERATION	i		NAME			DAT	E
1. CHIEF OF FIELD PARTY				George M.	Poor.	CDR.	NOAA	June	72
		RECOV	ERED BY	None	1 3 3 2 3			ococ.	12
2. HORIZONTAL C	CONTROL	ESTABL	ISHED BY	Non e					
		PRE-MARKED OR IDEN	I FIED BY	Non e					
		RECOV	ERED BY	NA					
3. VERTICAL CON	3. VERTICAL CONTROL ESTABL		ISHED BY	NA					
		PRE-MARKED OR IDENT	IFIED BY	NA [*]					
1		RECOVERED (Triangulation St	(ations) BY	Non e					
4. LANDMARKS AL		LOCATED (Field Me	thods) BY	None					
AIDS TO NAVIG	ATION	IDEN1	I TIFIED BY	None					
		TYPE OF INVESTIGA	TION				[
5. GEOGRAPHIC		COMPLETE	BY						
INVESTIGATION	N .	SPECIFIC NAMES	ONLY	·					
<u> </u>		X NO INVESTIGAT	ON		<u></u>				
6. PHOTO INSPEC	TION	CLARIFICATION OF DE	TAILS BY						
7. BOUNDARIES A		SURVEYED OR IDEN	IFIED BY	L					
II. SOURCE DATA		DENTIFICO		A VERTICAL C	ONTROL	SENTIFIC			
1. HORIZONTAL C	ione	IDEN I IF JED		2. VERTICAL C	ONTROLII	JENIIFIE	U	-	
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PHOTO NUMBER		STATION NAME		PHOTO NUMBER		STATION	DESIG	GNATION	
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3. РНОТО МИМВЕ	RS (Clariti	cation of details)		<u> </u>					
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No	ne	j							
4. LANDMARKS A	ND AIDS T	O NAVIGATION IDENTIFIED							
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PHOTO NUMBER		OBJECT NAME		РНОТО NUMBER	۹	ОВЈ	ECTN	AME	
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5. GEOGRAPHIC I		REPORT NO	i	6. BOUNDARY	NO LIMIT	s: F	EPOR	T 🗶 NO	NE
7. SUPPLEMENTA		NU PLANS							
	on e								
8. OTHER FIELD	RECORDS	(Sketch books, etc. DO NOT list	data submit	ted to the Geodesy	Division)				
	Fiel	ld Edit Ozalid, Fie	ela Edir	t Renort					
1	r T.C.1	La naro Ozarra, I i	- ACA MICE	o respond					
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Tip : = :			<u> </u>			
(3-72)	RM 76-36D		N	ATIONAL OCEAN	U. S. DEPARTA	MENT OF COMMERCI
	,	RECO	RP OF SURYE	Y USE		
I. MANUS	CRIPT COPIES		Ĭ			
	C	OMPILATION STAGE	s ĭ		DATE MANUS	CRIPT FORWARDED
<u></u>	DATA COMPILED	DATE	RE	MARKS	MARINE CHAR	TS HYDRO SUPPOR
	ation Complete g Field Edit	May 1972	Class III Super	manuscrip ş ed ed	t 5/19/72	5/19/72
that w plotte	eld edit, except hich has been d by hydro, has pplied;compilati	Apr. 1974	Class I Swperceded			
comple						
Final :	Review	July, 197			MAINT. PRINT HOV. 1974	
II. LANDA	AARKS AND AIDS TO NAVIG	ATION	<u> </u>			<u> </u>
	ORTS TO MARINE CHART D		DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED			REMARKS	
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	REPORT TO MARINE CHAR					
3. []	REPORT TO AERONAUTICA RAL RECORDS CENTER DA		, AERONAUTICAL	L DATA SECTION	I. DATE FORWARDE	D:
1.	BRIDGING PHOTOGRAPHS			RT; COMP	UTER READOUTS.	
2. [CONTROL STATION IDENT				D BY FIELD PARTIE	E\$.
3	SOURCE DATA (except for (ACCOUNT FOR EXCEPTIO	Geographic Names Re NS:	port) AS LISTED I 	IN SECTION II, N	DAA FORM 76-36C.	•
4. 🗀	DATA TO FEDERAL RECO	RDS CENTER. DAT	FORWARDED:			
IV. SURV	EY EDITIONS (This section			edition is regist	ered)	
	SURVEY NUMBER	JOB NUMBE	R		TYPE OF SURVE	
SECOND		(2) PH	FI D FOIT		MAP CLASS	RESURVEY
EDITION					III. DIV. DV	. FINAL
	SURVEY NUMBER	ЈОВ ИОМВЕ	R		TYPE OF SURVE	
THIRD	TP	(3) PH			_	RESURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF FE	ELD EDIT	. 🗀 🗆	map class]ih. □iv. □v	. OFINAL
	SURVEY NUMBER	JOB NUMBE	R	_	TYPE OF SURVE	Y
FOURTH	TP	(4) PH ·			REVISED A	ESÛRVÊY

DATE OF FIELD EDIT

DATE OF PHOTOGRAPHY

FOURTH

EDITION

□v.

FINAL

MAP CLASS

□ III. □IV.

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REVISED 9-5-72 RWW

JOB PH-6502 GLACIER BAY ALASKA

Shareline Mapping

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12744.

This 1:10,000 scale shoreline project is comprised of 80 maps which cover Glacier Bay and its numerous tributaries. For convenience of compiling, it was divided into five parts, according to aerotriangulation bridges. This map is one of fourteen maps that comprised Part II. The job diagram shows its location in the project.

The only field work done before compilation was the recovery (or establishment), identification, and premarking of horizontal control required for triangulation.

Compilation was done by Wild B-8 Plotter, using 1:40,000 scale color photographs taken in July, 1970.

Field edit was done in conjunction with hydrography in June and July, 1972. See Addendum to Compilation Report.

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

T-12744

No field inspection was done before compilation.

PHOTOGRAMMETRIC PLOT REPORT Job PH-6502 Glacier Bay, Alaska March 1972

21. Area Covered

This report covers T-sheets T-12727, T-12728, T-12732, T-12733, T-12734, T-12735, T-12740, T-12741, T-12742, T-12743, T-12744, T-12745 and T-12755 in Glacier Bay, Alaska.

22. Method

Three strips of 1:40,000 scale color photography were bridged by analytical methods to provide horizontal control points for compilation and shoreline points for ordering 1:10,000 scale ratio prints. All strips were adjusted on Alaska State Plane coordinates zone 1. The attached sketch of the strips bridged shows the placement of horizontal control points used in the strip adjustments. A list of closures to control is part of this report. Data for plotting manuscripts for compilation were assembled for ruling and plotting by the Coradomat.

23. Adequacy of Control

All targets that were visible on the 1970 photography could be seen on the 1971 photography with exception of Tini 1966 which was covered by snow. Photographs 70-E-7700 and 7701 on which Tinis 1966 was visible were substituted in the bridging of strip 31 in place of photographs 71-E-4801 and 4802. Common pass points were used between the 1970 and 1971 photography. The horizontal control used was adequate and held well within the accuracy required by National Standards of Map Accuracy at 1:10,000 scale. Tie points were used to augment datum tie between the three strips.

24. Supplemental Data

U. S. Geological Survey quadrangles were used to provide elevations for vertical adjustments of bridges.

25. Photography

RC-8E color film positives were adequate as to coverage, overlap and definition, but the contact prints appeared to be out of focus.

Respectfully submitted:

Robert B. Kelly

Carto Tech

Approved and forwarded:

Henry P. Eichert, Chief Aerotriangulation Section

Notes to Compiler

Additional sheets (T-12735, T-12736W and T-12746W) have been plotted on the Coradomat to aid in compilation.

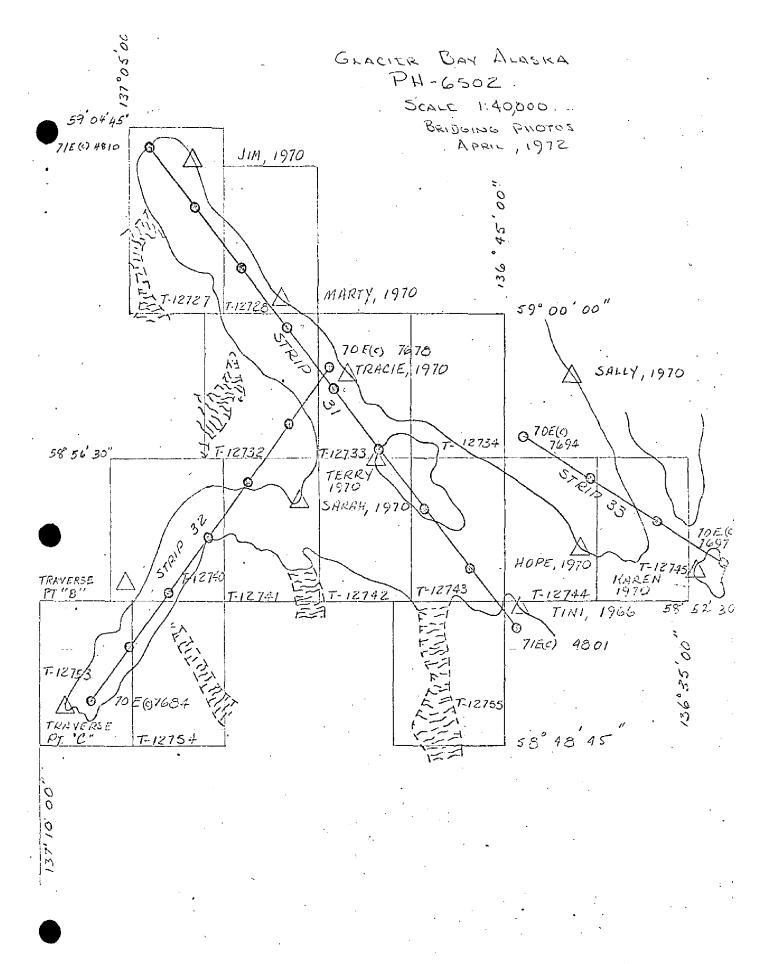
LEGEND
A CONTROL USED IN ADJUSTMENT
() CLOSURES OF BRIDGE TO CONTROL SHOWN.
△ CONTROL USED AS CHECK

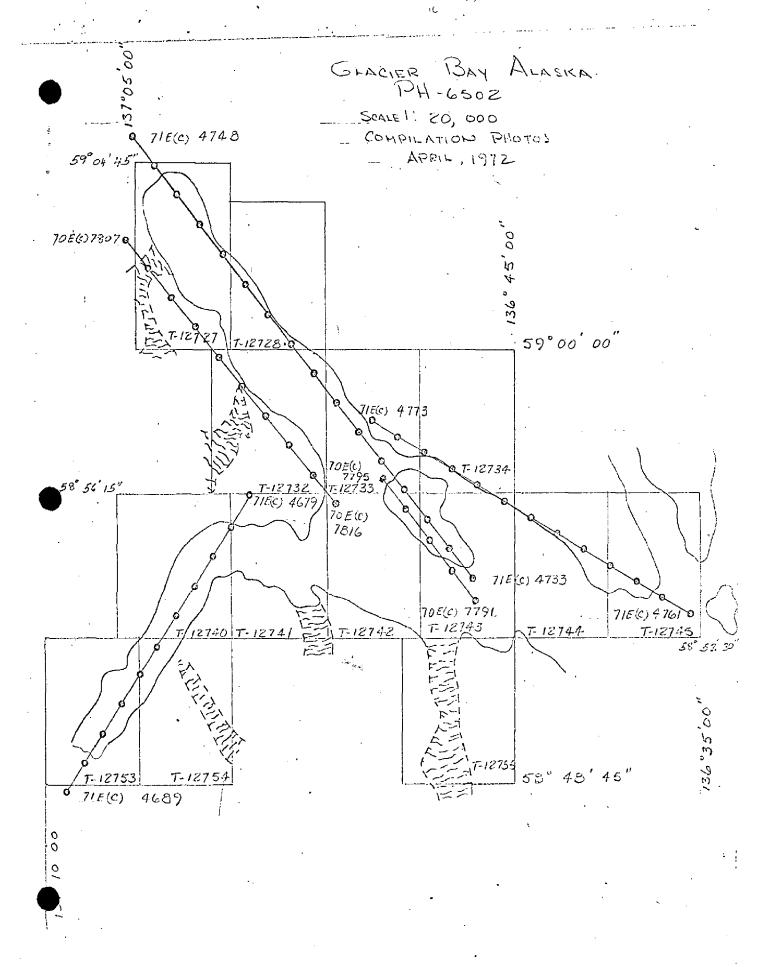
C . ~		
STRIP	٣3	١

	CONTROL USED AS CHECK	· ·	•
	STRIP 31		
·	A TINI, 1966	(0.0,0.0)	
•	A TERRY 1970	(-1,1,1,1)	
	A TRACIE, 1970	(-0.7, -2.5)	
	A MARTY, 1970	(1.4, -1.6)	
_	A Jim, 1970	(-0.6, 0.7)	

•	A MARTY, 1970	(1.4, -1.6)
	1970 Jim, 1970	(-0.6, 0.7)
	Str. 33)
	A TRACIE, 1970	(0.2,-0.2)
•	A TERRY, 1970	(-1.6, -0.2)
	A SARAH, 1970	(-0.3, O.5)
	A. TRAVERSE PT. B.	PANEL (0.2, -0.7)
	A TRAVERSE Pr.C.	PANCE (-0.2, 0.3)

•	St 818 33	
	1 SALLY, 1970	(0,0,0,0)
•	△ HOPE, 1970	(1.6, 0.0)
	A KAREN, 1970	(0.0, 0.0)





U.S. DEPARTMENT OF COMMERCE NATIONAL DEFANIC AND ATMOSPHERIC ADM. TRATION

None

NOAA FORM 76-41 (2-71) 10-20MM-DC 34168-971 (FORMERLY FORM CBGS-164)

DESCRIPTIVE REPORT CONTROL RECORD

PH-6502

N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS ($I\ Fit = 3048006\ motor)$ FORWARD SCALE FACTOR DATE LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE SCALE OF MAP 1:10,000 CHECKED BY DATUM SOURCE OF INFORMATION (INDEX) DATE PROJECT NO. STATION 12744 NONE COMPUTED BY MAP T-

COMPILATION REPORT

PH-6502

GLACIER BAY

T-12744

31. DELINEATION

The Wild B-8 was used to compile the MHW Line from 1970 E color 1:40,000 scale photography.

Since the stage of tide was near mean high water, no off-shore detail or mean lower low water line was compiled.

32. CONTROL

See "Photogrammetric Plot Report", dated March, 1972.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

Contours are inapplicable. Drainage was compiled from office interpretation of the photographs.

35 AND 36.

See item #31.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See 76-36b

40. HORIZONTAL AND VERTICAL ACCURACY

No statement

46. COMPARISON WITH EXISTING MAPS

A comparison was made with U.S.G.S. quadrangle MT. FAIR-WEATHER (D-3), Alaska scale 1:63,360, dated 1961.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison was made with Chart 8202, scale 1:209,978, dated September 17, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Submitted:

Lowell O. Neterer, Jr. Cartographic Technician

April 27, 1972

Approved

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12744

FIELD EDIT:

The extent of field edit was verification of the mean high water line by sextant fixes and location of rocks close to shore by the same method. Rocks located by sextant fixes and also visible on the photos were located on this map photogrammetrically. Rocks located by sextant fix and not visible on the photos were not located on this map, but should be plotted on the hydrographic sheet covering the area.

Sextant fixes are a part of the hydrographic records and also were copied to the Field Edit Ozalids.

One bluff indicated by the field editor was added to this map. Another, because of its slope and extent, was not mapped.

One rock awash indicated by the field editor at approximate Lat. 58° 54' 30", Long. 136° 43' 30" was not mapped because of its proximity to a bare rock already mapped.

Charles H.Beshop

Charles H. Bishop Final Reviewer 27 June 1974 GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12744

Glacier Bay

Approved by:

Chas. E. Harrington Staff Geographer

NOAA FORM 75-74 (2-74)	-			J.S. DEPARTMENT OF COMMERCE
12-1-1	РНО	TOGRAMMET	RIC OFFICE REVIEW	NATIONAL OCEAN SURVEY
			12744	
1. PROJECTION AND GRIDS	2. TITLE		3. MANUSCRIPT NUMBERS	4. MANUSCRIPT SIZE
RJP	RJP		RJP	RJP
CONTROL STATIONS	<u> </u>		<u></u>	
5. HORIZONTAL CONTROL ST. THIRD-ORDER OR HIGHER A	ATIONS OF	6. RECOVERA	BLE HORIZONTAL STATIONS IAN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS
X X	CCURACY	(Topographi	IAN THIRD-ORDER ACCURACY stations) X X	хх
8. BENCH MARKS	9. PLOTTING		10, PHOTOGRAMMETRIC PLOT REPORT	11, DETAIL POINTS
	FIXES			_
Х Х	XX		RJP	RJP
ALONGSHORE AREAS (Nautica				
12. SHORELINE	13. LOW-WATER	RLINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES
RJP	x x		RJP	X X
16. AIDS TO NAVIGATION	17. LANDMARK	(S	18. OTHER ALONGSHORE PHYSICAL FEATURES	19. OTHER ALONGSHORE CULTURAL FEATURES
хх	, x x		хх	хх
PHYSICAL FEATURES			······································	
20. WATER FEATURES		21. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS
RJP		•	хх	хх
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS	IN GENERAL	25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES
хх	хх		хх	RJP
CULTURAL FEATURES				
27. ROADS	28. BUILDINGS	5	29. RAILROADS	30. OTHER CULTURAL FEATURES
хх	x x		χχ	хх
BOUNDARIES				
X X			32. PUBLIC LAND LINES	
MISCELLANEOUS				
33. GEOGRAPHIC NAMES		34. JUNCTION	IS	35. LEGIBILITY OF THE MANUSCRIPT
RJP			RJP	RJP
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS
RJP	RJP		x x	хх
40. REVIEWER	h 1. =		SUPERVISOR, REVIEW SECTI	ON OR UNIT
R.J. Pate	5/3/	7 72	Albert C. F.	Bruch 1
A DEMARKS (A			1 000000	with y.
41. REMARKS (See attached she FIELD COMPLETION ADDITION		TIONS TO THE	MANUSCRIP T	<u> </u>
	s furnished by th	ne field comple		to the manuscript. The manu-
COMPILER Frank Marg	iotta	Apr 1974	SUPERVISOR	
D		<u></u>	albert C. Ra	uck. In.
Reviewer: G.R. Var 43. REMARKS	<u>nderhaven</u>	May :1974	1000-1	
	t applied	from fi	eld edit ozalid & d	overlav
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Field Edit Report, OPR-460

Glacier Bay, Alaska

NOAA Ship McARTHUR

June - September, 1972

In accordance with project instructions OPR-460, Glacier Bay, Alaska, all shoreline of the Glacier Bay area.within the project limits was inspected. All significant rocks were noted and the mean high water line was delineated. All questions on the field edit ozalid were answered.

Three-point sextant fixes on signals established for hydrography were most commonly used to locate positions. Photos were used on occasion; however, with the abundance of signals it was more expedient to use sextant fixes. Check angles were provided when possible. A list of the signals and their geographic positions accompanies this report.

Rocks were noted with their height above water and the time and date of observation. In some cases, where it was more convenient, rocks were noted with height above the apparent mean high water line. Only larger, more prominent and/or navigationally significant rocks were noted, since the area as a whole is quite rocky. All times are given in PDT, which is 105°W time meridian.

No attempt was made to delineate the MHWL (mean high water line) in low flat tidal areas. Areas of this nature possess very little relief and the mean high water line is characteristically obscure. In such areas, a sextant fix at the water's edge was obtained at the time of inspection and noted on the field edit ozalid.

The seaward faces of glaciers are subject to constant change and for obvious reasons are not delineated by the editor.

There are no cultural objects in Glacier Bay except for the obscure ruins of a cabin in Reid Inlet. There is nothing of particular landmark value in the survey area. Bluffs of a precipitous and extensive nature were often cited by the compiler as potential landmarks. In a less primitive and stark environment replete with vegetation and soft contours, such bluffs might appear distinctive. However, Glacier Bay, in its upper regions, is a land devoid of vegetation, rich in bold relief, and characteristically monochromatic.

None of the fixes on the field edit ozalids were plotted directly. Compilation of T-sheets was accomplished at 1:10,000 scale and the boat sheets containing the plotted hydro signals, were at 1:20,000

scale; therefore, it was impractical to plot positions directly on the field edit ozalids. All three-point fixes were plotted on the boatsheets (1:20,000 scale) and then transferred to the ozalid with proportional dividers.

Purple ink was used on the ozalid to mark positions and to note comments. Photos that were used in field edit have been annotated with orange-red ink. A commentary on the editing of individual T-sheets follows.

T-12740

There are many large rocks shown that are probably rock and dirt laden icebergs. On inspection of the areas where these rocks were said to be, no evidence of their existence was found. The misidentified icebergs have been noted on the field edit ozalid.

T-12741

An islet (58°54.0'N, 136°55.2'W) shown on USC&GS Chart 8202 (17th Ed. 11/71) is not detatched from the mainland. A gorge in the rocky promontory might lead to this interpretation; however, the base of the gorge is well above MHW. A small extension of this same promontory at 58°54.05'N, 136°55.3'W forms an islet at MHW and has been delineated on the field edit ozalid.

T-12742

Compilation of this manuscript below 58°54'15"N is incomplete; however, a foul area replete with rocks and a reef were located at 58°53.0'N, 136°50.3'W. The area should be considered a hazard to navigation.

A cove is shown on the manuscript at 58°53.7'N, 136°54.8'W that does not exist. The true MHWL throughout this area is further to the seaward than is drawn on the manuscript. The MHWL is correctly delineated on the field edit ozalid.

T-12743

There is a dangerous reef at 58°55.3'N, 136°46.1'W which might prove especially hazardous to safe navigation. The reef is below the MHWL and near favorable sites for the anchorage of large vessels.

A large foul area is found in the vicinity of 58°55'20"N, 136°47'45"W. The many rocks and reefs in this area have been delineated on the field edit ozalid.

T-12744

An object suspected to be a rock at 58°53.8'N, 136°41.0'W is in all

probability a dirt and rock laden iceberg. No rock was found on inspecting the area. This misidentification of icebergs is a common problem in this area of Glacier Bay.

In the area around Joan Rocks (incorrect name, see Geographic Names Report, OPR-460), two reefs were delineated. A reef compiled at 58°54.4'N, 136°43.7'W on the manuscript does not exist.

T-12745

A rock (58°52.9'N, 136°37.95'W) shown on the manuscript was not found on inspection. See previous discussions on rock and dirt laden ice-bergs. Rendu Inlet was not inspected by the field editor. Its distance from the project area and the inefficient use of time attendant upon the establishment of hydrographic control in the area argued against inspection.

T-12754

The limits of Hoonah Glacier have been inked on photo 4685. The southern half of the face of this glacier hangs on a precipitous slope far above the water's edge. It is to be expected that this precarious position subjects the face to frequent changes in this area.

T-12755 (not in McARTHUR's inventory)

As noted, this manuscript was not transmitted to McARTHUR. Aerial photography for Reid Inlet was flown in June 1972. Presumably the manuscript will be compiled on receipt of the photographs from this flight. McARTHUR surveyed Reid Inlet in July 1972. The following list of field edit positions in Reid Inlet is appended for the convenience of the compiler.

REID INLET

August 10, 1972

* denotes check angle

No.	Angles	Signal Nos.	Description
9744	41°56' 53°56' *70°28'	100 59 60 *114/59	Rock bares 10'; 15' diameter. 0900 PDT
9745	31°48' 67°12' *58°56'	same	Rock bares 2'; 4' diameter. 0909 PDT

No.	Angles	Signal Nos.	Description
9746	25°46' 70°43' *52°01'	same	Rock bares 2 1/2'; 5' diameter. 0917 PDT
9747	46°33' 75°07' *52°08'	114 59 60 *60/64	Rock bares 3'; 5' diamater 0920 PDT
9748	43°08' 70°41' *72°27'	same *60/68	Rock bares 4'; 6' diameter. 0925 PDT
9749	61°42' 67°02' *82°22'	59 60 64 *60/68	Rock bares 12'; 20' diameter. 0930 PDT
		MHWL FIXES	
9750	40° 1 7' 24°47'	72 74 76	
9751	39°59' 23°53'	same	
9752	39°40' 24°23'	same	
9753	37°09† 24°45†	same	
9754	37°05' 25°53'	same	
9755	39°00' 22°05'	same	
9756	43°26' 20°31'	same	
		•	
9881	40°31' 79°33' *29°56'	90 114 59 *114/100	
9882	64°19' 57°31'	114, 59, 60	

*100/59

*36°43"

No.	Angles	Signal Nos.
9883	55°20' 62°12' *28°59'	114 59 60 *100/59
9884	47°30' 68°21' *21°58'	same
9885	40°55' 52°41' *72°00'	59 60 62 *60/64
9886	27°42' 89°36'	59 60 64
9887	36°19' 99°36' *17°46'	72 60 64 *59/60
9888	26°46' 51°46' *34°06'	60 62 64 *62/59
9889	41°24' 63°05' *86°47'	66 68 72 *68/60
9890	18°56' 94°00' *46°54'	same *64/68
9891	104°59' 27°28' *114°47'	68 72 114 *66/72
9892	66°46' 75°42' *70°57'	68 72 114 *66/72
9893	40°35' 60°28' *42°33'	68 72 76 *72/74

T-12757

The field editor's inspection for rocks at 58°50.75'N, 136°38.8'W and 58°50.8N,136°39.3'W indicates that they probably do not exist. Many icebergs were observed to congregate in the area, and such bergs were most probably misidentified as rocks.

The area south of 58°50'00" was not inspected. Its distance from the hydrographic survey area, and the inefficient use of time attendent upon the establishment of hydrographic control in the area argued against inspection.

T-12748 -

Two isolated rocks at 58°54.85'N, 136°06.3'W are an especially noteworthy hazard to navigation. Both are below the MHWL and lie near favorable anchorage sites for large vessels.

A reef lies inside the mouth of Wachusett Inlet at 58°56.2'N,136°10.0W that is hazardous to the safe navigation of the inlet. The area between the reef and the south shore of the inlet is shallow (see boatsheet MA-20-3-72, H-9317).

T-12749 ...

The large alluvial fan between latitudes 58°53.7'N, and 58°54.7'W possesses a particularly extensive network of offshore sand bars. The bars are composed of loose sand and are subject to frequent change.

ADAMS INLET

Verification of the tree line in Adams Inlet was not accomplished by the field editor. The predominant tree in the inlet is the Sitka Alder. The Alder's overwhelming abundance and phenomenal growth rate argue against any constructive purpose being served by a description of Alder forest bounderies.

T-12750 ~

A shoal at 58°53.25'N,135°55.9'W was confirmed by indirect methods. Launch AR-1 struck the rocky shoal shortly after (10-20 seconds) a position fix at 1141 PDT, 24 September. As the launch was on a heading that would carry it directly over the shoal, the shoal's position is confirmed. The launches outdrives struck the shoal. They project approximately 2 feet below the waters surface.

T-12751 ~

The narrow channel at 58°54.3'N,135°51.5'W is a potentially hazardous passage because of the rocks (delineated on the field edit ozalid) and the strong tidal current.

Two shoals near 58°54.3'N, 135°54.6'W are composed of water-saturated mud and are hazardous for the unwary boater. The light grey color at lower stages of the tide blends well with the water. And one may speedily run firmly aground before being aware of it.

The shoal at 58°52.7'N, 135°53.9'W is composed of rock and because of its mid-channel location it is particularly noteworthy.

T-12764 -

A large mid-channel rock at 58°51.7'N, 135°59.1'W is the most distinctive hazard to navigation in Adams Inlet and the most impressive shoal in all of upper Glacier Bay. During periods of ebb and flood, the tidal velocity is greatly increased in the vicinity of this rock because of the constriction in the channel. Whitehorses dance madly about the rock as large whirlpools are shed from its sides.

Prepared by:

Shee R. Bity Steven R. Birkey

LT(jg), NOAA

Approved by:

CDR, NOAA

Commanding Officer NOAA Ship McArthur



U.S. DEPARTMENT OF COMMERCE Environmental Science Services Administration CDAST AND GEODETIC SURVEY

Date: June 16, 1974

Reply to NGS Party G-52 Gen. Del. Attn of: Twentynine Palms, Ca. 92277

Subject: Field Edit, Glacier Bay, Alaska

To: CAM 52x1, Mr. Charles Bishop

In regard to field edit work done by the MCARTHUR during the 1972 field season in Glacier Bay, rock fixes were listed on the field edit ozalids and also in two or three sounding volumes for "Detached Positions". To the best of my recollection, these rock fixes were also taped.

Steven R. Birkey

Lt., NOAA

REVIEW REPORT T-12744

SHORELINE

JUNE 27, 1974

61. GENERAL STATEMENT:

See Summary which is page six (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:

There are no registered topographic surveys of this area that are suitable for comparison.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle MT. FAIRWEATHER (D-3), ALASKA, scale 1:63,360, dated 1961. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with a copy of the boat sheet for Survey H-9315, scale 1:20,000, dated 1972. Significant differences were shown on the comparison print in purple.

65. COMPARISON WITH NAUTICAL CHARTS:

A visual comparison was made with Chart 8202, scale 1:209, 978, 18th edition, dated 3 Nov. 1973. No significant differences were noted.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

This map complies with Project Instructions and meets the requirements for the National Standards of Map Accuracy.

Reviewed by:

Charles H.Bishop

Charles H. Bishop Cartographer

Approved for forwarding:

Victor E. Serena

Chief, Photogrammetric Branch, AMC

Chief, Photogrammetric Branch

& Chief, Coastal Mapping Division

136°4	'00" 44 ['] .30" 136°44'00"	
58°55' 00"		
y= 2,600,000 <u>FT</u>		
	Not visible on photos	
	(13) ** *(9) (200) * (11)	
54'30"	Rock visible on photos but not mapped because of its proximity to	40
JOINS T-12743	of its proximity to bare rock.	8
Či.	Not visible on photos	
Y= 2, 595,000 FT 54'00"		
	COMPARISON PRINT Purple = H-9315	
	T-12744 1:10,000	

