12742

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of SurveyShore	eline			
Job No. PH-6502	Map No. T-12742			
Classification No.	Edition No1			
Field Edited				
L(CALITY			
StateAlask	a			
General LocalityGla	cier Bay			
Locality Russell				
,	,			
19 70	TO 1972			
REGISTRY IN ARCHIVES				
DATE				

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

NOAA FORM 76-36A U. S. DEPARTMENT OF COMMERCE (3-72) NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.	TYPE OF SURVEY SURVEY	rp. 12742
NATIONAL OCEANIC AND ATMOSPHERIC ADMIN.		. 1
	XX ORIGINAL MAPEDITIO	ON NO. ([)
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY MAP CLASS	
	REVISED JOB F	н. <u>6502</u>
PHOTOGRAMMETRIC OFFICE	LAST PRECEEDING MAP EDIT	ION
		'H
Atlantic Marine Center	D ORIGINAL MAP CLASS	i <u>———</u>
OFFICER-IN-CHARGE	C) RESURVEY SURVEY DA	ATES:
Alfred C. Holmes, RADM - Director	19TO 19	
I. INSTRUCTIONS DATED		
1. OFFICE	2. FIELD	
Aerotriangulation Jan. 20, 1972 Compilation Supp I Apr. 5, 1972		
1 -0		
Compilation Amend Apr. 17, 1972		
	·	
II. DATUMS		
I. HORIZONTAL: 1927 NORTH AMERICAN	OTHER (Specify)	
	OTHER (Specify)	
MEAN HIGH-WATER MEAN LOW-WATER		
2. VERTICAL: MEAN LOWER LOW-WATER		
MEAN SEA LEVEL	 	
3. MAP PROJECTION	4. GRID(S)	
Polyconic	STATE ZONE	
5. SCALE	Alaska l	
1:10,000		
III. HISTORY OF OFFICE OPERATIONS		
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY	R. Kelly	Mar 1972
METHOD: Analytical LANDMARKS AND AIDS BY	D Dhilling	Mar 27/72
	<u>D. Phillips</u> D. Phillips	Mar 27/72
	L.O. Neterer, Jr(N. part	
COMPILATION CHECKED BY	R.R. White & R. Pate "	May 6/72
INSTRUMENT: Wild B-8 CONTOURS BY	NA	
1,20,000	(NA	May 19/72
· ·	A.L. Shands (N. part) B. Wilson	Jun 6/72
· · · · · · · · · · · · · · · · · · ·	NA	0/12
METHOD	NA	
HYDRO SUPPORT DATA BY	A.L. Shands (N. part)	May 19/72
1:10,000 CHECKED BY	B. Wilson "	Jun 6/72
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	B. Wilson	May 23/72 Apr 1974
6. APPLICATION OF FIELD EDIT DATA CHECKED BY	F. Margiotta G.R. Vanderhaven	Apr 1974
7. COMPILATION SECTION REVIEW BY	G.R. Vanderhaven	Apr 1974
8. FINAL REVIEW BY	C.H. Bishop	June 1974
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY	- 11	NOV-1974
10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY	S. BLAUKENBAKER	FEB. 1975
1), MAP REGISTERED - COASTAL SURVEY SECTION BY	K. CATOR	MAK 1975



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	NOAA (3-72)	FORM	76-36B
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U. S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL OCEAN SURVEY

T-10742

			IPILATION SO	URCES			
1. COMPILATION PHO	TOGRAPHY						
CAMERA(S)		 1	TYPESOF	PHOTOGRAPHY			
Wild RC-8 "E	TT			GEND	TIM	TIME REFERENCE	
TIDE STAGE REFEREN			151 501 00		ZONE		
PREDICTED TIDES			(C) COLOR (P) PANCHE(•	<u>Pacif</u>	ic	STANDARD
REFERENCE STAT			(I) INFRARE		MERIDIAN		DAYLIGHT
TIDE CONTROLLE	D PHOTOGRAPHY	<u> </u>	(I) INFNACE		120th		
NUMBER AND	TYPE	DATE	TIME	SCALE	ST	AGE OF T	IDE
70-E(C)-7793	- 7795	7/27/70	14:57	1:20,000	6.1 ft.	. above	MLLW
70-E(C)-7816]	7/27/70	15:08	1:20,000	5.9 ft,	. above	MLLW
70-E(C)-7679	£ 7680	7/27/70	11:15	1:40,000	11.0 ft.	, above	MLLW
71-E(C)-4718		6/5/71	11:05	1:20,000	11.4 ft.	, above	MLLW
71-E(C)-4805		6/5/71	12:42	1:40,000	12.9 ft.	. above	<u> </u>
71-E(C)-4735		6/5/71	11:23	1:20,000	12.0 ft.	. above	MLLW
71-E(c) 4801	, (6/5/7/	12:42	1:40,000	12.9 ft.	above	MITM :
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			1	•)
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			converted :	from zulu t	time and da	aylight	time
to Pacific St	andard Tim	e.					
2. SOURCE OF MEAN	HICH WATER I						
2. SOUNCE OF MEAN	HIGH-WATER CIT	NG:					j
			C T	00 544	1		. 1
71 E(C)47	18 thru 47	722, South	of Lat. 5	3 ⁰ 54', gra	aphic comp:	llatior	1,
70 7/0170				ixes for co	ontrol.		ŀ
70 E(C)78	16	N.W.	corner of	map.			ļ
/U E(C)//	93 thru //	95 Russe.	ll Island.				ľ
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3. SOURCE OF MEAN	LOW-WATER OR	MEAN LOWER L	OW-WATER LINE:]
None comp	iled.						
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4. CONTEMPORARY	HYDROGRAPHIC	SURVEYS (List	only those surveys	that are sources f	or photogr am metric	survey inf	ormation.)
SURVEY NUMBER	DATE(S)	SURVEY CO	PY USED SUR	VEY NUMBER	DATE(S)	SURVEY	COPY USED
j		1	į			[l
5. FINAL JUNCTIONS							i
NORTH	EAS		sou		WES1		
T-12733		T-12743		T-12 75	5	T-127	41
REMARKS							
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NOAA FORM 76-36 (3-72)	С	т з	2742	NATIONAL	U. S OCEANIG AND A	TMOSPHERIC	NT OF COMMERC ADMINISTRATION L OCEAN SURVE
		HISTORY O	1	OPERATIO	NS	NATIONA	E OUERN SURVE
I. 🔀 FIELD INSP	ECTION O	PERATION	FIELI	EDIT OPER	HOITA	·	
		OPERATION	The state of the s		NAME		DATE
. CHIEF OF FIEI	D PARTY		}	J.B. Wa	atkins, J r	. CAPT.	6/6/70
		RECOV	ÉRED BY	None			
. HORIZONTAL	CONTROL	ESTABL	SHED BY	None			
		PRE-MARKED OR IDENT	~	None	· · · · · · · · · · · · · · · · · · ·		ļ
·	.==		ÉRED BY	NA NA			
, VERTICAL COI	NTROL		ISHED BY	NA NA			
·		PRE-MARKED OR IDENT	1	None None			
LANDMARKSA	NO.	RECOVERED (Triangulation Sta	1	None	 		
AIDS TO NAVIG		LOCATED (Field Me	Inods) BY FIED BY	None			
		TYPE OF INVESTIGAT		1.01.0			<u> </u>
, GEOGRAPHIC 1	NAMES	COMPLETE	,				
INVESTIGATIO	Ν,	SPECIFIC NAMES	ONLY			•	
		▼ NO INVESTIGATIO	и				
. PHOTO INSPEC	TION	CLARIFICATION OF DE	TAILS BY				
. BOUNDARIES A	ND LIMIT	S SURVEYED OR IDENT	IFIED BY	None			<u> </u>
. SOURCE DATA							
. HORIZONTAL		IDENTIFIED		[AL CONTROL IDE	NIIFIED	
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, GEOGRAPHIC		REPORT NON	E	6. BOUNDA	RY AND LIMITS:	REPOR	T X NONE
. SUPPLEMENT	AL MAPS A	ND PLANS					
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NOAA FORM 76-36C (3-72)			NATIONAL OCE		MOSPHERIC A	
	T-12	li .	anen i Tiolic		NATIONAL	OCEAN SURVEY
	HISTORY OF	FIELD	OPERATIONS			
I. TIELD INSPECTIO	N OPERATION	X FIELO	EDIT OPERATION	ı		
	OPERATION	Į.		NAME		DATE
I. CHIEF OF FIELD PA	RTY		George M.	Poor	1	June Sept 1972
	RECOVI	REDBY	None			
2. HORIZONTAL CONTR	OL ESTABLI	SHED BY	None			
	PRE-MARKED OR IDENT	FIED BY	None			
	1	ERED BY	None			
3. VERTICAL CONTROL			None			
	PRE-MARKED OR IDENT	FIED BY	None			
	RECOVERED (Triangulation Sta	tions) BY	None			
4. LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Mei	hods) BY	None			
	TYPE OF INVESTIGAT	FIED BY	None			
	[] 5440 SES	ION			İ	
5. GEOGRAPHIC NAMES INVESTIGATION	COMPLETE SPECIFIC NAMES	BY	{		}	
	. NO INVESTIGATIO				}	
			 			
6. PHOTO INSPECTION	CLARIFICATION OF DET		None			
7. BOUNDARIES AND LI	MITS SURVEYED OR IDENTI	FIED BY	Hone			
II. SOURCE DATA 1. HORIZONTAL CONTE	ROL IDENTIFIED		2. VERTICAL CO	NTROL IDEN	TIFIED	
None	,					
PHOTO NUMBER	STATION NAME		PHOTO NUMBER		ATION DESIG	NA IION
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3. PHOTO NUMBERS (C.	larification of details)		<u> </u>	<u> </u>		
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None						
4. LANDMARKS AND AL	DS TO NAVIGATION IDENTIFIED					
None	•					
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5. GEOGRAPHIC NAME	E REPORT X NON	E	6. BOUNDARY A	ND LIMITS;	REPORT	X NONE
7. SUPPLEMENTAL MA	PS AND PLANS		•	· - 		·— ·
None						
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8. OTHER FIELD RECO	RDS (Sketch books, etc. DO NOT list	data submit	ted to the Geodesy	Division)	•	
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NOAA FORM	76-36D		NATIONA	N OCEANIC A	U. S. DEPARTMEN	T OF COMMERCE
(3-72)			Γ∜12742		ND ATMOSPHENIC	ADMINISTRATION
		RECOR	RD OF SURVEY USE			
I. MANUSCR	IPT COPIES		ì			
		MPILATION STAGES	s)		DATE MANUSCRI	PT FORWARDED
0,	ATA COMPILED	DATE	REMARKS		MARINE CHARTS	HYDRO SUPPORT
Compila In Nort	tion Complete h Portion Only Field Edit	5/23/72	Class III man Superseded		6/6 / 7 2	6/5/72
	n Shoreline com-					
	ield edit applie	đ	Člass I		ĺ	
<u>Compila</u>	tion Complete	Apr 1974	Superseded			·
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		7 . 307			Nov . 1974	
<u>Final R</u>	<u>evlew</u>	June 1974	K:			
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II. LANDMA	RKS AND AIDS TO NAVIGA	TION	j			
	RTS TO MARINE CHART DI		DATA BRANCH			
NUMBER	CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		REM	ARKS	
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	REPORT TO MARINE CHART					
	REPORT TO AERONAUTICA		, AERONAUTICAL DAT	A SECTION. D	ATE FORWARDED:	
III. FEDEK	AL RECORDS CENTER DAT					,
1. [-]	BRIDGING PHOTOGRAPHS:	[DUPLICATE	BRIDGING REPORT;	COMPUTI	ER READOUTS.	
	CONTROL STATION IDENT		· ·			
	SOURCE DATA (except for G		eport) AS LISTED IN SEC	TION II, NOAA	FORM 76-36C.	
,	ACCOUNT FOR EXCEPTION	15:			•	***

	DATA TO FEDERAL RECO				· · · · · · · · · · · · · · · · · · ·	_
IV. SURVE	Y EDITIONS (This section :	shall be completed e		on is registere	TYPE OF SURVEY	
SECOND	TP -	(2) PH -	<u> </u>	RE		SURVEY
EDITION	DATE OF PHOTOGRAP		IELD EDIT		MAP CLASS	
}]	} [⊒ո. □ա	□ iv. □ v.	FINAL
	SURVEY NUMBER	JOB NUMBE	:R		TYPE OF SURVEY	
THIRD	TP -	_ (3) PH		LIRE		SURVEY
EDITION	DATE OF PHOTOGRAP	HY DATE OF F	_]u. 🗆 🗆	MAP CLASS □IV. □V.	FINAL
 	SURVEY NUMBER	JOB NUMBE			TYPE OF SURVEY	
				RE		5ÜRVÊY
FOURTH	DATE OF PHOTOGRAP		IELD EDIT		MAP CLASS	
EDITION			ļ <u>[</u>]n. 🔲 m.	. □ıv. □v.	FINAL



JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12742

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 comprise 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 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-12742

There was no field inspection prior to 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.

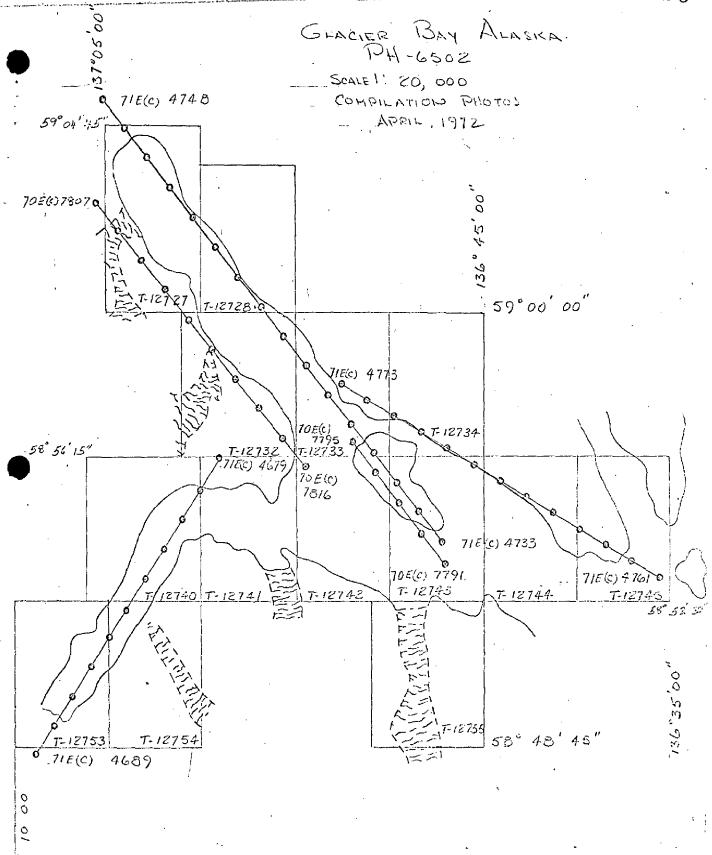
	11	
•	LEGENT	
(A CONTROL USED IN ADJUSTMENT) CLOSURES OF BRIDGE TO CONTROL SHOWN	
	IN PARENTHESIS A CONTROL USED AS CHECK	

5-00	~~	ı
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△ CONTROL USED AS CHECK	
STRIP 31	
EX TERM	(0.0,0.0) (-1.1, 1.1) (-0.7,-2.5)
MARTY, 1970 Dim. 1970	(1.4, -1.6) (-0.6, 0.7)

	E.A.A.	(1.4, -1.6) (-0.6, 0.7)
	STRIP 32	
	A TRACIE, 1970	(.0.2, -0.2)
. ,		(-1.6, -0.2) (-0.3, 0.5)
	A SARAH, 1970 A. TRAVERSE PT. B., PA	NEL (0.2, -0.7)
	A TRAVERSE PIC, P	NUCL (-0.2, 0.3)

	A TRAVERSE PT. C. PANCE	
	STRIP 33	
	A SALLY, 1970	(0,0,,0,0)
_	A HOPE, 1970	(1.6, 0.0)
	A KAREN, 1970	(0.0, 0.0)



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

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FORM 76-41	Y FORM
NOAA FOR	USCOMM-DC 34168-P71 (FORMERLY
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DESCRIPTIVE REPORT CONTROL RECORD

Tor None	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD							1								14
SCALE FACTOR	018	 _		<u>.</u>										·		DATE
SCALE OF MAP 1:10,000 SC/	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE		,													СНЕСКЕD ВҮ
SC,	DATUM															
NO. PH-6502	SOURCE OF INFORMATION (INDEX)								,							DATE
MAP T- 12742 PROJECT NO.	STATION	NONE			-											COMPUTED BY

COMPILATION REPORT

T-12742

31. DELINEATION

Delineation north of Lat. 58054' was by Wild B-8 Plotter.

South of that latitude, compilation was incomplete. Approximately 10,000 feet of shoreline was not compiled because of the lack of control and no stereo-models to cover the area.

32. CONTROL

See Photogrammetric Plot Report, dated: March, 1972.

33. SUPPLEMENTAL DATA

None

34. CONTOURS AND DRAINAGE

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

35. SHORELINE AND ALONGSHORE DETAILS

The mean high water line and alongshore details were delineated from office interpretation of the photographs which were taken at asstage of tide approximately 3 feet below MHW.

36. OFFSHORE DETAILS

No statement.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

See form 76-36b, item #5, of the Descriptive Report.

40. HORIZONTAL AND VERTICAL ACCURACY

No statement.

46. COMPARISON WITH EXISTING MAPS

A comparison has been made with the following U.S. Geological Survey quadrangle: MT. FAIRWEATHER (D-3), ALASKA, scale 1:63,360, dated 1961.

47. COMPARISON WITH NAUTICAL CHARTS

A comparison has been made with the following National Ocean Survey chart: 8202, scale 1:209,978, 17th Edition, Sept. 11, 1971.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARDED

None

Submitted by:

Charles H.Bishop

For B. Wilson, Carto. Tech., 5/23/72

Approved:

Albert C. Rauck, Jr.

Chief, Coastal Mapping Section

ADDENDUM TO THE COMPILATION REPORT

T-12742

FIELD EDIT:

No details were identified or clarified on the photographs.

The extent of field edit was verification of the mean high water line and the location of numerous rocks by sextant fixes. All sextant fixes are part of the hydrographic records.

Fixes on rocks located by sextant fixes and also identifiable on the photographs were applied as field edit. Sextant fixes on other rocks were not plotted, as signals used spanned three maps. They should be applied to the hydrographic smooth sheet covering the area.

The shoreline on the south side of Glacier Bay between Long. 136 ° 52' 00" and 136 ° 54' 45" was not in the stereoscopic models. One pass point was dropped from Model 4801 - 4802 at the east edge of the sheet. Another point, at the west side of the sheet, located by only two cuts was a poor extension of control from Bridge Strip 32. The mean high water line between these pass points was traced from Photo 71 E(C) 4720, holding the office interpretation of the mean high water line to sextant fixes on that line taken by the field editor. To be of value as control, the fixes should have been identified on the photographs; they were not. For that reason, this stretch of shoreline - approximately three miles - does not meet the requirements for National Standards of Map Accuracy.

Charles H.Bishop

Charles H. Bishop Final Reviewer 25 June 1974

16 May 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay, Alaska)

T-12742

Glacier Bay

Ptarmigan Creek

Russell Island

Approved by:

Chas. E. Harrington Staff Geographer

NOAA FORM 75-74 U.S. DE PARTMENT OF COMMERCE									
(2-74)	PHOTOGRAMMETRIC OFFICE REVIEW NATIONAL OCEAN SURVEY								
			2.7.42.						
1. PROJECTION AND GRIDS	1. PROJECTION AND GRIDS 2. TITLE 3. MANUSCRIPT NUMBERS 4. MANUSCRIPT SIZE								
7.1	75.1								
BW	BW		XX	<u> </u>					
CONTROL STATIONS									
5. HORIZONTAL CONTROL STA	CCURACY	OF LESS TH (Topographic	BLE HORIZONTAL STATIONS AN THIRD-ORDER ACCURACY	7. PHOTO HYDRO STATIONS					
None		, , , , ,	χχ	χх					
8. BENCH MARKS	9. PLOTTING OF	FSEXTANT	10. PHOTOGRAMMETRIC	11. DETAIL POINTS					
хх	x x		BW						
ALONGSHORE AREAS (Nautical	Chart Data)	· · -		_ <u></u>					
12. SHORELINE	13. LOW-WATER	LINE	14. ROCKS, SHOALS, ETC.	15, BRIDGES					
BW	Not Compi	led	Not Compiled	хх					
16. AIDS TO NAVIGATION	17. LANDMARK		18. OTHER ALONGSHORE	19. OTHER ALONGSHORE CULTURAL FEATURES					
			PHYSICAL FEATURES	1					
X X	XX		X X	XX					
PHYSICAL FEATURES		131 NAWILEAN		100					
20. WATER FEATURES		ZI. NATURAL	GROUND COVER	22. PLANETABLE CONTOURS					
BW**			χχ	хх					
23. STEREOSCOPIC INSTRUMENT CONTOURS	24. CONTOURS IN GENERAL		25. SPOT ELEVATIONS	26. OTHER PHYSICAL FEATURES					
(x x	хх		X X	B₩*					
CULTURAL FEATURES									
27. ROADS	28. BUILDINGS	i	29. RAILROADS	30. OTHER CULTURAL FEATURES					
_ x x	хх		хх	хх					
BOUNDARIES									
31. BOUNDARY LINES X X			32. PUBLIC LAND LINES X X						
MISCELLANEOUS 33. GEOGRAPHIC NAMES		34. JUNCTION		126) 56(2) (2) 02 505					
33. GEOGRAPHIC NAMES		34. JUNCTION	5	35. LEGIBILITY OF THE MANUSCRIPT					
BW		[BW	₿₩					
36. DISCREPANCY OVERLAY	37. DESCRIPTI	VE REPORT	38. FIELD INSPECTION PHOTOGRAPHS	39. FORMS					
BW	₩ DW		x x	BW					
40. REVIEWER B. Wilso	on (N. par	t only)	SUPERVISOR, REVIEW SECTION	OR UNIT					
albert & Rayer	5/24/72	· ···	A.C. Bauck, Jr.	Rauch 1.					
41. REMARKS (See attached she	albert & Raush Dr. For Albert & Rauch G.								
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT									
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.									
COMPLER F. Margiott	ta Apr	. 1974	SUPERVISOR	/ 0					
Reviewer: G.R. Van	nderhaven	Apr. 197	albut C.Ra	uch. Jr.					
43. REMARKS	ideThavell	/ 	<u> </u>						
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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 icebergs. 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'		Rock bares 2 1/2'; 5'
3740	70°43'	same	diameter. 0917 PDT
	*52°01'	·	didino con to out.
	"JZ UI		
9747	46°33'	114	Rock bares 3'; 5' diamater
	75°07'	59	0920 PDT
	*52°08'	60	
	•	*60/64	
١	•	•	
9748	43°08'	same	Rock bares 4'; 6'
	70°41'		diameter. 0925 PDT
. ,	*72°27'	*60/68	•
• .			
9749	61°42'	59	Rock bares 12'; 20'
	67°02'	60	diameter. 0930 PDT
	*82°22'	64	•
•		*60/68	
		MHWL FIXES	
0750	400771	70	
9750	40°17' 24°47'	72 74	•
	24 47	7 4 76	
		, 10	
9751	39°59'	same	
	23°53'		
9752	39°40'	same	
	24°23'		
9753	37°091	same	
	24°45'		•
9754	37°05'	same	
	25°53'		•
000	202001		•
9755	39°00'	same	
	22°05 '		•
9756	43°26'	same	
9730	20°31'	banc	•
	20 31	•	
			<i>;</i>
			·
9881	40°31'	90	
	79°33'	114	
•	*29°56'	59	
		*114/100	•
9882	64°19'	114, 59, 60	
-	57°31'		•

*100/59

:		
No.	Angles	Signal Nos.
9883	55°20'	114
2003	62°12'	59
u	*28°59'	60
		*100/59
	,	··10 0 / 39
9884	47° 30'	
	68°21'	same
	*21°58'	
i		
9885	40°55'	59
	52°41'	60
	*72°00'	62
•		*60/64
•		
9886	27°42'	59
	89°36'	60
		64
	254701	
9887	36°19'	72
	99°36'	60
	*17°46'	64
		*59/60
9888	26°46'	60
7000	51°46'	62
	*34°06'	64
		*62/59
9889	41°24'	66
	63°05'	68
	*86°47'	72
		*68/60
0000	18°56'	
9890	94°00'	
	*46°54'	same *64/68
	-40 J4	~047 00
9891	104°59'	68
	27°28'	72
	*114°47'	114
		*66/72
	•	,
9892	66°46'	68
	75°42 '	72
	*70°57'	114
		*66/72
9893	40°35'	68
	60°28'	72
	*42°33'	76
	•	*72/74

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:

Steen R. Bitey Steven R. Birkey

LT(jg), NOAA

Approved by:

CDR, NOAA

Commanding Officer NOAA Ship McArthur



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

June 16, 1974

NGS Party G-52 Gen. Del. Twentynine Palms, Ca. 92277

Field Edit, Glacier Bay, Alaska

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.

Sleven R. Bickey Steven R. Birkey Lt., NOAA

REVIEW REPORT T-12742

SHORELINE

JUNE 25, 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. FAIR-WEATHER (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:

The north half of this map complies with Project Instructions and meets the requirements for National Standards of Map Accuracy. The south half of the map is very poorly controlled and does not meet the accuracy requirements.

Reviewed by:

Charles HBIsloop

Charles H. Bishop Cartographer

Approved for forwarding:

Victor E. Serena

Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch

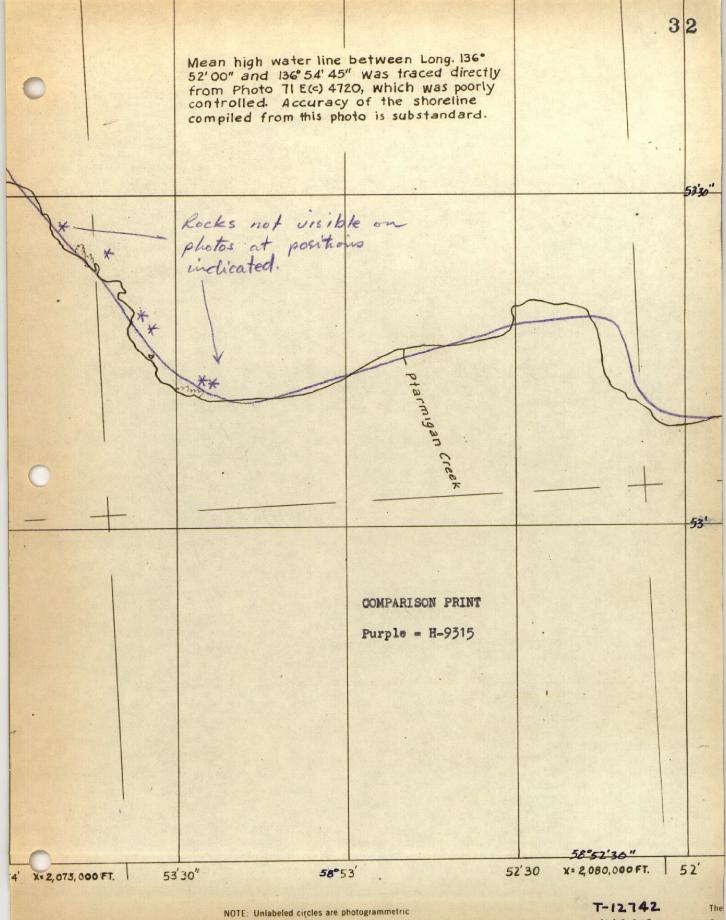
For Chief, Coastal Mapping Division

71-E(C)-4736

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× 5	51'30"	51' ×= 2,	085,000FT. 50	'30" 13	6° 50' 00"
					58° 56 ′ 1 5
*	R	us s slan			56 ′
	Rocks are not				
	visible on the photographs.	-*	70-E(C)-7		Y= 2,605,00
	COMPARISON Purple = H		*	2	55'30
					-12742 1:10,000

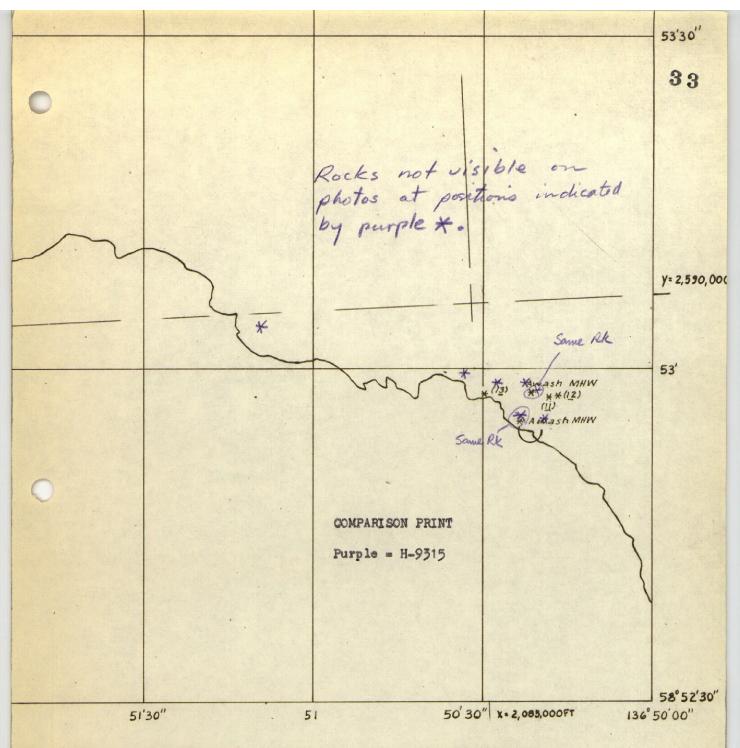
	/36°55'00" 0 084 58°54"	31
Alongshore area for hydro May, 1972 Sipo partially completed Southern May, 1972 Sipo shoreline incomplete. Field Edit Aplied Complete All field edit, except that which has been plotted by hydro, has been applied	Shoreline charby field ed Shoreline charby field ed COMPARIS Purple =	on PRINT
Syperseded	ア マラ スポ ケ ケ ケ ケ ケ ケ ケ ケ ケ ケ ケ ケ ケ	T-12742 1:10,000



plot points; not map features.

1:10,000

Con



heavy shoreline defines the approximate mean high water. piled by photogrammetric methods, from aerial photographs

July 1970 e of Photography

e of Field Inspection None July 1972 of Field Edit

e of Final Compilation April 1974

of Final Review June 1974

NATIONAL OCEAN SURVEY SHORELINE MANUSCRIPT T-12742

ALASKA

GLACIER BAY

RUSSELL ISLAND WEST

(1 inch=833,33 ft.)

CONTROL DATA

Polyconic projection: 1927 North American Datum 5,000 foot grid based on ALaska (Zone 1) plane coordinate system Datum plane: Mean High Water