7-12748

NOAA FORM 76-35

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

DESCRIPTIVE REPORT

Type of Survey Shorel	ine
	Map No.T-12748
Classification No.	Edition No 1
Field Edited	
LOCA	LITY
State	
Glacier, Glacier	
	Cove
19 71 T C	0 19 72
REGISTRY II	N ARCHIVES
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 TF- 12748
	□ ORIGINAL	MAP EDITION NO. ()
DESCRIPTIVE REPORT - DATA RECORD	RESURVEY	MAP CLASS
	REVISED	лов Рн - <u>6502</u>
PHOTOGRAMMETRIC OFFICE		ING MAP EDITION
Coastal Mapping Division(Rockville)	TYPE OF SURVEY	JOB PH-
Côastal Mapping Division(Norfolk)	ORIGINAL	MAP CLASS —
officer-in-Charge Jack E. Guth	RESURVEY	SURVEY DATES:
Jeffrey G. Carlen	REVISED	19TO 19
I. INSTRUCTIONS DATED		
1. OFFICE	2.	FIELD
May 17, 1972		
II. DATUMS	OTHER (Specify)	
1. HORIZONTAL: E 1927 NORTH AMERICAN	O There (opeonly)	
MEAN HIGH-WATER MEAN LOW-WATER MEAN LOWER LOW-WATER MEAN SEA LEVEL	OTHER (Specify)	
3. MAP PROJECTION	4.	GRID(S)
Polyconic	state Alaska	ZONE
5. SCALE 1:10,000	STATE	ZONE
III. HISTORY OF OFFICE OPERATIONS	<u> </u>	
OPERATIONS	NAME	DATE
1. AEROTRIANGULATION BY METHOD: Analytical LANDMARKS AND AIDS BY	R. Kelly	
2. CONTROL AND BRIDGE POINTS PLOTTED BY	D. Phillips	May, 1972
METHOD: Coradamat CHECKED BY		
3. STEREOSCOPIC INSTRUMENT PLANIMETRY BY	J.C. Richter	June, 1972
COMPILATION CHECKED BY		
INSTRUMENT: B-8 CONTOURS BY		
scale: 1:10,000 CHECKED BY 4. MANUSCRIPT DELINEATION PLANIMETRY BY	M.C. Webber	June, 1972
CHECKED BY	II.C. WEDDEI	0 dite; 1572
CONTOURS BY		
METHOD: Graphic Worksheets CHECKED BY		
SCALE: 1:10,000 CHECKED BY		
5. OFFICE INSPECTION PRIOR TO FIELD EDIT BY	Henri Lucas	June, 1974
6. APPLICATION OF FIELD EDIT DATA CHECKED BY		
7. COMPILATION SECTION REVIEW BY	O II Di la	7
8, FINAL REVIEW BY	C.H. Bishop	Jan., 1975
9. DATA FORWARDED TO PHOTOGRAMMETRIC BRANCH BY 10. DATA EXAMINED IN PHOTOGRAMMETRIC BRANCH BY		
11. MAP REGISTERED - COASTAL SURVEY SECTION BY	n. Jotanie	aug. 26, 1924
<u> </u>	ルー・ハベ ノクグ ポスペン イカト	

NOAA FORM 76-36B (3-72)				NATIONAL O		ATMOSF		DMINISTRATIO
			COMPILATIO	N SOURCES		T-	-12748	
1. COMPILATION PHO	TOGRAPHY							
CAMERA(S) "E" 6" foc	al leng	th	TYPE	S OF PHOTOGRAPH LEGEND	' '	TIM	E REFER	ENCE .
TIDE STAGE REFERENCE PREDICTED TIDES REFERENCE STATION RECORDS TIDE CONTROLLED PHOTOGRAPHY			LOR NCHROMATIC FRARED	MERI	cific		□ DAYLIGH	
NUMBER AND	TYPE	DATE	TIME	E SCALE		ST	AGE OF	TIDE
71E 4838 - 48	41	6/5/71	13:14	1:40,00	1.2	ft.	above	MLLW
71Ē 4626 - 46	29	6/5/71	10:03	1:20,00	0.0	ft.	above	MLLW
	000 sca	le photogr	 aphs rati	 oed to 1:10,	000 for	Hydr	o supj	port.
REMARKS 1:20,			_	,				
2. SOURCE OF MEAN	HIGH-WATE e interp	R LINE:		,000 scale c	olor pho	otogr	aphy	
2. SOURCE OF MEAN	HIGH-WATE e interp	R LINE:			olor pho	otogr	raphy	
2. SOURCE OF MEAN Office dated Ju	HIGH-WATE e interj ne 5, 19	r Line: pretation : 971.	from 1:40	,000 scale c	olor pho	otogr	raphy	
2. SOURCE OF MEAN Office dated Ju	HIGH-WATE e interj ne 5, 19	r Line: pretation : 971.	from 1:40	,000 scale c	olor pho	otogr	raphy	
2. SOURCE OF MEAN Office dated Ju	HIGH-WATE	r Line: pretation : 971.	from 1:40	,000 scale c	olor pho	otogr	raphy	
2. SOURCE OF MEAN Office dated Ju	HIGH-WATE	r Line: pretation : 971.	from 1:40	,000 scale c	olor pho	otogr	raphy	
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2. SOURCE OF MEAN Office dated Ju	HIGH-WATER e interpose int	r Line: pretation 971.	from 1:40	,000 scale c				formation.)
2. SOURCE OF MEAN Office dated June 3. SOURCE OF MEAN Not m	HIGH-WATER e interpose int	PHIC SURVEYS (I	from 1:40	,000 scale c		Ammetric	survey in	formation.)
2. SOURCE OF MEAN Office dated Ju 3. SOURCE OF MEAN Not m 4. CONTEMPORARY SURVEY NUMBER	HIGH-WATER e interpose int	PHIC SURVEYS (I	from 1:40	,000 scale c	s for photogr	Ammetric	survey in	
2. SOURCE OF MEAN Office dated Ju 3. SOURCE OF MEAN Not m	HIGH-WATER e interpose int	PHIC SURVEYS (I	from 1:40	,000 scale c	s for photogr	ammetric WEST	survey in	Y COPY USED

OAA FORM 76-36C -72)		NATIONAL OCEAN	IC AND ATMOSPHERIC	ENT OF COMMERCE C ADMINISTRATION AL OCEAN SURVEY	
	HISTORY OF FIELD	OPERATIONS	T-127	48	
. FIELD INSPECTION OF	PERATION FIEL	D EDIT OPERATION			
	OPERATION	N/	DATE		
. CHIEF OF FIELD PARTY		George M. F	°oor	June - Sept. 197	
. HORIZONTAL CONTROL	RECOVERED BY			<u> </u>	
, HORIZONIAL CONTROL	ESTABLISHED BY PRE-MARKED OR IDENTIFIED BY			 	
	RECOVERED BY	N.A.			
, VERTICAL CONTROL	ESTARLISHED BY	N.A.			
	PRE-MARKED OR IDENTIFIED BY	N.A.			
	RECOVERED (Triangulation Stations) BY				
LANDMARKS AND AIDS TO NAVIGATION	LOCATED (Field Methods) BY	None		<u> </u>	
	TYPE OF INVESTIGATION	ļ		 	
, GEOGRAPHIC NAMES	COMPLETE				
INVESTIGATION	SPECIFIC NAMES ONLY			ļ	
	X NO INVESTIGATION				
. PHOTO INSPECTION	CLARIFICATION OF DETAILS BY			<u> </u>	
. BOUNDARIES AND LIMITS	SURVEYED OR IDENTIFIED BY	N.A.			
I. SOURCE DATA	V-	1-			
. HORIZONTAL CONTROL	DENTIFIED	2. VERTICAL CONTROL IDENTIFIED N.A.			
PHOTO NUMBER	ST A TION. NAME	PHOTO NUMBER	STATION DES	IGNATION	
S. PHOTO NUMBERS (Clarific	cation of details)				
. LANDMARKS AND AIDS TO	O NAVIGATION IDENTIFIED		· · · · · · · · · · · · · · · · · · ·		
None					
PHOTO NUMBER	OBJECT NAME	PHOTO NUMBER	OBJECT	NAME	
	,				
. GEOGRAPHIC NAMES:	REPORT X NONE	6. BOUNDARY AND	LIMITS: REPOR	RT NONE	
. SUPPLEMENTAL MAPS AN		1		<u>Q., 1110112</u>	
	None				
	MONE				
OTHER FIELD RECORDS	(Sketch books, etc. DO NOT list data submit	ted to the Geodesy Div	rision)		

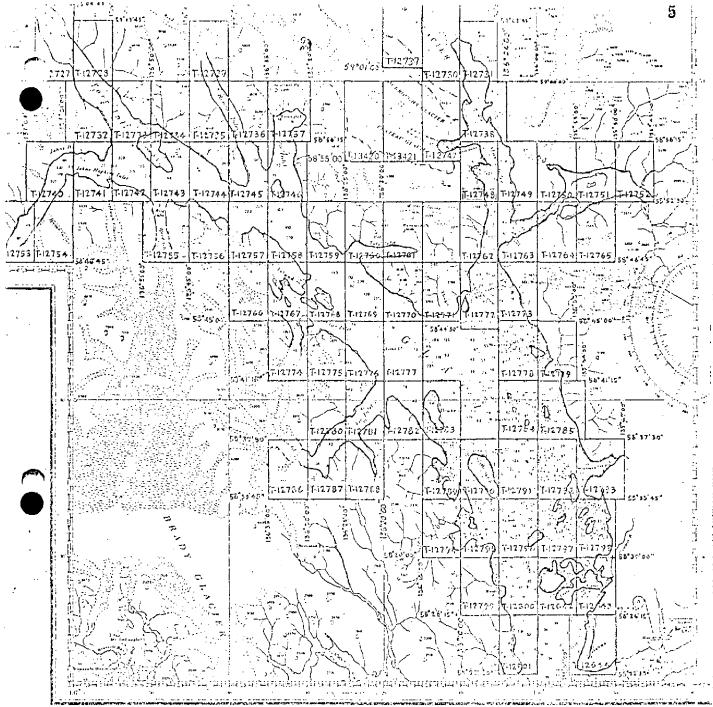
NOAA FORM 76-36D (3-72)		NATIONAL OCEANIC	U. S. DEPARTME AND ATMOSPHERIC	NT OF COMMERCE
	RECO!	RD OF SURVEY USE	T-1274	8
. MANUSCRIPT COPIES				
	COMPILATION STAGE			IPT FORWARDED
Shoreline rocks along shore and inshore detail	- June, 1972	Class III Manuscript	MARINE CHARTS	June, 1972
Field Edit Applied	June, 1974	Class III		·
Corrections made, Final reviewed as Class I	Jan., 1975		3-11- 7 5	
II. LANDMARKS AND AIDS TO NAVIG				
I. REPORTS TO MARINE CHART NUMBER CHART LETTER NUMBER ASSIGNED	DATE FORWARDED		MARKS	
		None		

1. BRIDGING PHOTOGRAPHS; DUPLICATE BRIDGING REPORT; COMPUTER READOUTS.

NOAA FORM 76-36D

3. 🗆 sc		•	OS 567 SUBMITTED BY FIELD PARTIES. IN SECTION II, NOAA FORM 76-36C.
4. 🗆 D	ATA TO FEDERAL RECORDS C	ENTER, DATE FORWARDED:	
IV. SURVEY	EDITIONS (This section shall b		
	SURVEY NUMBER	ЈОВ И ШМВЕЙ	TYPE OF SURVEY
SECOND	TP(2)	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
			☐II. ☐III. ☐IV. ☐V. ☐FINAL
	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
THIRD	TP(3)	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
			☐II. ☐IV. ☐V. ☐ FINAL
<u></u>	SURVEY NUMBER	JOB NUMBER	TYPE OF SURVEY
FOURTH	TP(4)	PH	REVISED RESURVEY
EDITION	DATE OF PHOTOGRAPHY	DATE OF FIELD EDIT	MAP CLASS
COLLION			OII. DIV. DV. DFINAL

₩ U.S. G.P.O. 1972-769380/548 REG.#6



REVISED 9-5-72 RUL

JOB PH-6502 GLACIER BAY ALASKA

Shoreline Mapping

SUMMARY TO ACCOMPANY

DESCRIPTIVE REPORT T-12748

This 1:10,000 scale shoreline manuscript is one of 80 maps that comprise Project PH-6502 which covers Glacier Bay and its numerous tributaries. For convenience of compilation the project is divided into five parts, according to aerotriangulation bridges. This map is one of 10 maps that comprise Part III, Muir Inlet. The job diagram shows its location in the project.

No field work was done before compilation, except premarking of horizontal control for bridging.

Aerotriangulation was done in the Rockville Office in May, 1972. The report could not be located at the time of final review and is not bound with this Descriptive Report.

Compilation was done in Rockville, using the B-8 stereo-plotter and 1:40,000 scale color photography taken in June, 1971. Photo-hydro support photographs ratioed from 1:20,000 scale to 1:10,000 scale were furnished for the hydrographer's and field editor's use.

Field edit was done in conjunction with hydrography in September, 1972. Since hydrography was done at 1:20,000 scale, photographs were used very little for signal location and edit. Most of this work was done with a T-2 theodolite and sextant. Field edit was applied in the Rockville Office and forwarded for final review as a Class III Manuscript. Comments on this application follow the Compilation Report. Since this map was field edited and sextant fixes on the MHWL verified that this feature is accuratly mapped, this final reviewer finds no reason to register the map as a Class III Manuscript; it should be registered as Class I.

Final review was done at the Atlantic Marine Center in January, 1975. See Review Report, Item 61, which is bound with this Descriptive Report.

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

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

AEROTRIANGULATION REPORT

GLACIER BAY - PART III.

Maps T-12738, T-12748 thru T-12752, T-12762 thru T-12765

No aerotriangulation report for this part of Project PH-6502 was available to the final reviewer at the time of final review, nor could one be located at the Atlantic Marine Center or in the Rockville Office.



DESCRIPTIVE REPORT CONTROL RECORD

MAP T- 12748 PROJE	PROJECT NO. PH-6502	SCA	SCALE OF MAP 1:10,000 SC/	SCALE FACTOR None	1
STATION	SOURCE OF INFORMATION (INDEX)	DATUM	LATITUDE OR Y COORDINATE LONGITUDE OR X COORDINATE	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS (1 Ft. = 3048006 meter) FORWARD (BACK)	ON LINE
PI.APEMI 1939	G.P. Vol. 3	N.A.	541	(203.4)	
- 1	Pg. /94	1927	- 90	503.5 (456.9)	
	G.P. Vol. 3	N.A.	580 531 08,705"	269.4 (1587.2)	
DENSON, 1939	Pg. 794	1927	136 ⁰ 06' 44.858"	718.6 (242.5)	
	Bridge Form	N.A.	2,602,847.09·ft	2,847.09 (2,152.914)	,
SKIP, 1970	164 Pg. 3	1927	2,221,408,39ft	1,408.39' (3,591.61ft)	
1					
	·				
				9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	
			Angel Parket and Angel		
COMPUTED BY A.C. Rauck, Jr.	DATE 7/31/73		CHECKED BY Charles Parker	DATE 8/3/73	
					9

COMPILATION REPORT

T-12748

31. DELINEATION

1:40,000 scale color bridging photography was set on the B-8 stereoplotter to delineate shoreline foreshore and offshore features.

The photography was hazy which made the identification of many rocks along the shoreline difficult.

1:20,000 scale photography ratioed to 1:10,000 scale was used to try to locate rocks but chuncks of ice along the shoreline made it difficult to see, so many rocks may have been missed and will have to be located by the hydrographer. Common points were pricked on 1:40,000 scale and transferred to 1:10,000 scale ratioed photographs for hydro support.

32. CONTROL

Control was adequate for density and placement.

SUPPLEMENTAL DATA 33.

None

CONTOURS AND DRAINAGE 34.

Inapplicable

SHORELINE AND ALONGSHORE DETAILS 35.

Shoreline was delineated from office interpretation of 1:40, 000 color photographs dated June 5, 1971. An approximate low water line was shown but no shallow on shoal areas were shown. See Review Report, Par. 61
cNB 3-17-75

36. OFFSHORE DETAILS

The compilation photography was hazy and the difference in

the tide level between the 1:40,000 scale and the 1:10,000 scale. along with chuncks of ice along the shoreline made identification of rocks difficult.

37. LANDMARKS AND AIDS

None

38. CONTROL FOR FUTURE SURVEYS

None

39. JUNCTIONS

To the North with T-12738

To the South with T-12762

To the East with T-12749

To the West with T-12747

40. HORIZONTAL AND VERTICAL ACCURACY

Refer to "Photogrammetric Plot Report." Lost

41. - 45.

Inapplicable

46. COMPARISON WITH EXISTING MAPS

U.S. Geological Survey Quadrangle MT. FATRWEATHER, (D-1), ALASKA, scale 1:63,360 dated 1948 with minor revisions 1963.

47. COMPARISON WITH NAUTICAL CHARTS

Comparison was made with Nautical Chart No. 8202, scale 1:209,978 dated September 11, 1971, 17th Edition.

ITEMS TO BE APPLIED TO NAUTICAL CHARTS IMMEDIATELY

None

ITEMS TO BE CARRIED FORWARD

None

Respectfully Submitted:

Martha C. Webber

27 Nov. 1974

GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6502 (Glacier Bay-Muir Inlet, Alaska)

T-12748

Glacier Bay National Monument

Hunter Cove

Muir Inlet

Point McLeod

Rowlee Point

Wachusett Inlet

Approved By:

C. E. Harrington Staff Geographer-C51x2

CLACIER BAY, ALASKA, JOB PH-6502 HYDEO SUPPORT SHORELINE MANUSCRIPTS T-12738, 12748, 12749, 12750, 12751

Notes on application of field edit:

A review of Field Edit Report, (OPR-460) was made to determine the extent of field edit application required. The following conclusions were made:

After compiling the manuscripts at 1:10,000 scale, the hydrographic survey was conducted at 1:20,000 scale.

The ratio prints prepared for photo-hydro support and field edit were not utilized.

All hydro signals were located by traverse methods, positions computed and plotted on the boat sheet.

Sextant and T-2 fixes to foreshore rocks, the MHWL and other shoreline features were taken from these signals, plotted on the 1:20,000 scale boat sheets & transferred by proportional dividers to the 1:10,000 scale ozalid copy of the manuscripts.

The "spot" points transferred from the 1:20,000 scale boatsheets to the 1:10,000 scale manuscripts for the MHWL were inadequate to do revisions to the shoreline as compiled.

This project thus became a field hydrographic survey only.

All rocks and other foreshore features not visible on the photography that were plotted directly on the boat sheets from field fixes were not duplicated on the shoreline manuscripts as these were applied by hydrographic processing to the smooth sheet.

These conclusions were discussed with the Marine Chart Division and agreement was reached on the method of completing this project as far as the Coastal Papping Division is concerned.

The ten manuscripts will be recistered as a "Class III" man and is to be used as a source for shorellne compilation only.

Limited use was made of the field edit data. Corrections that could be applied on the 1:10,000 deale considered the removal of corriled made that were iceberns, the labeliar of "rocky beach" and the addition of a few shool areas.

A comparison was made between H-9317 and H-9318 (1:20,000) and the ten shoreline manuscripts. There was no conflict between the shoreline as compiled on the manuscripts and the hydrographic data.

Submitted by,

J. P. Battley, Jr. Chief, Coastal Mapping Section Field Edit Report, OPR-460

Glacier Bay, Alaska

NOMA 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 oxalids 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 misident-ified 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 MIWL 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	ı ·
9744	41°56' 53°56' *70°28'	100 59 60 *114/59	· ,	Rock bares diameter.	
9745	31°48' 67°12' *58°56'	same		Rock bares diameter.	2'; 4' 0909 PDT

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 ice-bergs 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 $58^{\circ}56.2$ '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:

Steven R. Birkey

Steven R. Birkey LT(jg), NOAA

Approved by:

CDR, NOAA

Commanding Officer
NOAA Ship McArthur

REVIEW REPORT T-12748

SHORELINE

January 16, 1975

61. GENERAL STATEMENT:

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

A comparison print, showing differences noted in Par. 62 and 64, is bound with the original of this report.

An overlay sheet was made in the electronic plotting section at AMC, showing field edit fix and signal positions. Fixes on the MHWL were right on the line with one or two exceptions, both in unstable areas. The dotted line at the edge of water at the time of photography was removed. All photography was taken at better than half tide and the line was meaningless. Tree lines were removed. See Memorandums dated October 18, 1965 and October 27, 1965. Bluff lines were removed because the field editor's report intimated that they were so numerous as to be of no landmark value.

Predicted tide tables were used to refer the field edit elevations on rocks to MLLW. The greatest difference with the hydrographer's elevations was 1 foot.

62. COMPARISON WITH REGISTERED TOPOGRAPHIC SURVEYS:

A comparison was made with copies of Surveys T-6757 and T-6758, both scale 1:20,000 and both dated July-August, 1940. Significant shoreline differences between these maps and T-12748 are shown in blue on the comparison print.

In the area compared, T-12748 supersedes T-6757 and T-6758 for nautical chart construction purposes. T-6757 and T-6758 are the latest registered prior surveys of the area.

63. COMPARISON WITH MAPS OF OTHER AGENCIES:

A visual comparison was made with U.S.G.S. Quadrangle MT. `FAIRWEATHER (D-1), ALASKA, scale 1:63,360, dated 1954. No significant differences were noted.

64. COMPARISON WITH CONTEMPORARY HYDROGRAPHIC SURVEYS:

A comparison was made with verified copies of smooth sheets for Surveys H-9317 and H-9318, both scale 1:20,000, dated 1972. Significant differences are shown in purple on the comparison print. Unless hydrographic data was visible on the photographs, it was not applied to T-12748.

65. COMPARISON WITH NAUTICAL CHARTS:

A comparison was made with Chart 8202, scale 1:209,978, 18th Edition, dated Nov. 3, 1973. No significant differences were noted. The chart is too small a scale for an adequate comparison.

66. ADEQUACY OF RESULTS AND FUTURE SURVEYS:

Although there is no Aerotriangulation Report with this section of PH-6502, this reviewer was assured by Mr. John Perrow, Chief of Bridging Section, by thelephone conversation on January 21, 1975, that this job complies with Bureau standards and meets requirements for National Standards of Map Accuracy.

Reviewed by:

Charles H. Bishop

Charles Harrios

Cartographer

Approved for forwarding:

Victor E. Serena Chief, Photogrammetric Branch, AMC

Approved:

Chief, Photogrammetric Branch Chief, Coastal Mapping Div.

T-12748

