# 9139

9139

Diag. Cht. No. 8202-2

NOAA FORM 76-35A

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

# DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Survey HYDROGRAPHIG.  Field No. FA-20-4-70  Office No. H-9139
LOCALITY
State ALASKA
1970  CHIEF OF PARTY  CAPT. J. B. Watkins, Jr.
LIBRARY & ARCHIVES  DATEMAY. 12, .1972

**☆U.S. GOVERNMENT PRINTING OFFICE: 1974-763-098** 

HYDROGRAPHIC TITLE SHEET  INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.  State  Alaska  General locality  Southeast Alaska  General locality  Locality  1:20,000   INSET = 1:10,000   Date of survey of the sheet of the sheet is forwarded to the Office.  State  Alaska  General locality  Charity Bay  Instructions dated  1:20,000   INSET = 1:10,000   Date of survey of the sheet of the survey of the sheet of the sheet is forwarded to the Office.  USC&GSS FAIRWEATHER, and Launches of the sheet is forwarded to the Office.	FA-20-4-70  Whe 10 to Aug. 7, 1970  OPR-460  FA-3, FA-4, FA-6.
INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.  State Alaska  General locality Southeast Alaska  Total Pt to Tital Alaska  Locality Glacier Bay  Scale 1:20,000 INSET = 1:10,000 Date of survey Instructions dated 26 March 1970 Project No.  Vessel USC&GSS FAIRWEATHER, and Launches Chief of party CAPT. John B. Watkins, Jr.  Surveyed by FAIRWEATHER personnel  Raytheon DE-723 fathometers (Serial Nos. 550, 55)  Soundings taken by echo sounder, hand lead, pole Ross Model 400A	ono.  FA-20-4-70  Whe 10 to Aug. 7, 1970  OPR-460  FA-3, FA-4, FA-6.
State	FA-20-4-70  Whe 10 to Aug. 7, 1970  OPR-460  FA-3, FA-4, FA-6.
General locality  Southeast Alaska  Thing if the Tical of Notice of Survey  Locality  Scale  1:20,000 INSET = 1:10,000 Date of Survey  Instructions dated  26 March 1970 Project No.  Vessel  USC&GSS FAIRWEATHER, and Launches  Chief of party  CAPT. John B. Watkins, Jr.  Surveyed by  FAIRWEATHER personnel  Raytheon DE-723 fathometers (Serial Nos. 550, 5)  Soundings taken by echo sounder, hand lead, pole Ross Model 400A	OPR-460 FA-3, FA-4, FA-6.
Locality Glarier Bay  Scale 1:20,000 INSET = 1:10,000 Date of survey Instructions dated 26 March 1970 Project No.  Vessel USC&GSS FAIRWEATHER, and Launches Chief of party CAPT. John B. Watkins, Jr.  Surveyed by FAIRWEATHER personnel Raytheon DE-723 fathometers (Serial Nos. 550, 5) Soundings taken by echo sounder, hand lead, pole Ross Model 400A	OPR-460 FA-3, FA-4, FA-6.
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Raytheon DE-723 fathometers (Serial Nos. 550, 55 Soundings taken by echo sounder, hand lead, pole Ross Model 400A hand lead line and lose 5	
TATOLINA MILITO	29, 559, 542, and 558) Fathometer (Prototype)
Graphic record scaled byFAIRWEATHER personnel	
Graphic record checked byFAIRWEATHER personnel Automated p	lot by Digital Plotte
Soundings penciled by	
Soundings in fathoms at MLLW	
REMARKS:	·

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U 5-23-72

USCOMM-DC 87009-P66

#### Descriptive Report

to Accompany

Hydrographic Sheet H-9139 (FA-20-4-70)

Glacier Bay, Alaska

Scale 1:20,000 (Tidal Inlet inset scale 1:10,000)

USC&GSS FAIRWEATHER (MSS 20)

CAPT. John B. Watkins, Jr. Comdg.

# A. PROJECT

The survey was accomplished under OPR-460, project instructions dated 26 March 1970 and in accordance with the Pacific Marine Center OpOrder.

## B. AREA SURVEYED

This survey includes Tidal Inlet and the area of Glacier Bay extending from approximately Latitude 59° 43.5'N on the south to a line connecting the mouths of Blue Mouse Cove and Tidal Inlet on the north. The area extends from the southern end of Sebree Island on the east to the mouths of Hugh Miller Inlet and Blue Mouse Cove on the west.

This sheet joins the following prior surveys:
H-8817 along Latitude 59° 43.5'N, H-6576 along
Lat. 59° 44.7'N and Long. 136° 10.5'W, and H-6575(1940) and H-6576(1940)
along Longitude 136° 08.5'W. The sheet also joins
the following contemporary surveys: H-9138 (FA-203-70); H-9142 (FA-10-7-70); and H-9143 (FA-10-8-70)

The control was established from 8 June to 27 July 1970. Hydrography extended from 16 June to 7 August 1970.

There is no prior survey of the area.

#### C. SOUNDING VESSELS

The ship FAIRWEATHER and three launches were used to accomplish the hydrography. The following are color codes and position numbers applicable to each vessel:

FAIRWEATHER	Violet	0229 - 0245
FA-3	Green	2001 - 2829
FA-4	Blue	4001 - 4993
FA-6	Brown	8001 - 8299

# D. SOUNDING EQUIPMENT

The major part of the survey was accomplished using Raytheon DE-723 fathometers on the Ship FAIRWEATHER (Serial Nos. 550 and 529), Launch 3 (Ser. No. 559), and Launch 6 (Serial Nos. 542 and 558). The remainder of the sounding lines were run by Launch 4, using a Ross Laboratories Model 400A fathometer. Hand lead line and role Scandings were 3/50 used for detached joint hims.

The echo sounding velocity corrections were determined from serial temperature and salinity observations. The corrections for the launches also include bar check results; an abstract of the cumulative corrections to soundings for the survey is included with this report.

#### E. SMOOTH SHEET

The signal overlay was plotted by the Gerber Digital Plotter and verified by ship personnel. The position and sounding data were logged by ship personnel, with the final smooth sheet to be plotted electronically and verified by personnel at PMC.

#### F. CONTROL

All hydrography was accomplished using visual fix methods. The control signals were established from recovered triangulation stations and from unmarked undescribed topographic stations located by third order traverse methods. In addition, photo-identified signals were located on Advance Manuscripts, scale 1:10,000, numbers T-12760, T-12771, T-12775, (1964/70) and T-12776.(1964/70)

#### G. SHORELINE

Shoreline was transferred directly to the boat sheet from Advance Manuscripts T-12759, T-12760, T-12768, T-12769, T-12770, T-12771, T-12775, T-12776, and T-12777. Shoreline for the eastern end of Tidal Inlet which should appear on T-12761 was compiled by ship personnel (LTjg Allan Divis) on T-12760 using the photo-identified hydro signals as pass points. All manuscripts were photographed in 1944 with a field edit in 1970.

Shore line details were verified using field matte prints. A few minor discrepancies in the form of rock ledges and detached rocks along the shoreline were noted on the "Field Edit Ozalids" and referenced to appropriate matte prints.

The low water line could not be defined in some areas due to the steeply sloping shore.

Shoreline of Lone Island originates with planetable survey T-6754 (1940).-/:20,000

RWD. 9/73 4/75

#### H. <u>CROSSLINES</u>

Crosslines, consisting of approximately ten percent of the regular system of sounding lines, were in good agreement except in a few cases of steep bottom profile. This is perfectly exceed in the vicinity of for 5346.9 for source.

#### I. JUNCTIONS

Junctions were made with contemporary surveys H-9138 (FA-20-3-70), H-9142 (FA-10-7-70), and H-9143 (FA-10-8-70), and were complete and adequate. Junctions were also enterted with H-6575 (1940) and H-6576 (1940) and the east in Medicinally of Things of the Asset (1940) and H-6576 (1940) and the east in Medicinal of Things of The Asset (1940) and H-6576 (1940) the Hydrography was done on a 1:20,000 scale overlay at the mouth of Blue Mouse Coye, to insure an adequate junction with FA-10-7-70 and to better define the steeply sloping bottom in the area.

#### J. COMPARISON WITH PRIOR SURVEY

There is no prior survey of the area.

## K. COMPARISON WITH THE CHART

Comparison of the survey with the small number of soundings shown on Chart No. 8202 (scale 1:209,978, 15th Edition, October 21, 1968) shows good agreement. The Obstruction Reported (PA) charted at Latitude 58° 44.8'N, Longitude 136° 24.8'W was not found (least depth 10.2 fathoms). However, just south of the reported obstruction at Latitude 58° 44.3'N, Longitude 136° 24.2'W an obstruction was found which Longitude 136° 24.2'W an obstruction just west of the reported obstruction, two shoals were found: Latitude 58° 44.8'N, Longitude 136° 25.9'W and Lat. 58° 44.5'N, Long. 136° 25.95W. These had least depths of 5.2-3.5 fathoms and 3.2 fathoms.

# L. ADEQUACY OF THE SURVEY

The survey is considered complete and adequate for charting.

# M. AIDS TO NAVIGATION

There are no aids to navigation in the area of the survey.

#### N. STATISTICS

FAIRWE	ATHER	<u>FA-3</u>	<u>FA-4</u>	<u>FA-6</u>	TOTAL
Positions Sounding line (n.m.) Area surveyed (sq. n.m.) Bottom samples Leadline soundings	245 103.5 6.5 11	829 116.6 6.6  02	993 245.0 14.5  04	2.2	525.7 29.8

#### O. MISCELLANEOUS

Various objects including rocks and shoal areas were located by sextant fix and plotted on the boat sheet.

#### P. RECOMMENDATIONS

None.

# Q. REFERENCES TO REPORTS

- 1. Season's Report, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 2. Magnetics Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 3. Field Edit Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
  - 4. Fathometer Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
  - 5. Coast Pilot Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 6. Triangulation Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
- 7. Evaluation of Ross Fathometer, USC&GSS FAIRWEATHER, 1970. (Forwarded 21 August 1970).
- 8. Geographic Names Report, OPR-460, USC&GSS FAIR-WEATHER, 1970. (To be forwarded).

Respectfully submitted,

John E. Thomasson

John E. Thomasson

ENS, USESSA

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

VELOCITY CORRECTIONS Glacier Bay - 1970

Corrections to be applied to the following sheet numbers:

FA-10-7-70 FA-10-8-70

FA-20-3-70 FA-20-4-70 FA-20-5-70 FA-20-6-70

Applicable Depths (fms)	Corrections (fms)
0 - 20 20 - 50 50 - 120 120 - 140 140 - 180 180 - 200 200 -	0.0 +0.1 +0.2 +0.3 +0.4 +0.5 +0.9

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

DRAFT CORRECTIONS Glacier Bay - 1970

Ship FAIRWEATHER Sheet Number	Date	Corrections (fms)
FA-20-3-70	6-28 7-06 7-20 7-23	+0.2 +0.4 +0.4 +0.3
FA-20-4-70	6-27 6-28 7-21 7-24 7-27 8-07	+0.2 +0.2 +0.3 +0.3 +0.3 +0.3
FA-20-6-70	8-06	+0.3

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS Glacier Bay-1970

Launch FA-3 Sheet Number	Date	Correction (fms)
FA 20-3-70	6-16 6-17 6-18 7-24 7-27	+0.1 +0.1 +0.2 +0.2 +0.2
FA 20-4-70	6-18 6-27 6-28 7-17 7-20 7-21 7-22 7-23 7-27	+0.2 +0.2 +0.2 +0.2 +0.1 +0.1 (+0.2) +0.3 +0.2
FA: 20-5-70	7-14 7-15 7-17 8-03 8-04 8-06	+0.3 (+0.2) +0.2 (+0.2) +0.2 +0.1
FA 10-7-70	8-02	(+0.2)
FA 10-8-70	7-29 7-30 7-31 8-02	+0.2 (+0.2) +0.2 (+0.2)

Corrections in parentheses ( ) are estimated for days when bar checks were not taken.

# MSS 20

CAPT. John B. Watkins, Jr. Commanding

# ECHO CORRECTIONS Glacier Bay-1970

Launch FA-4 Sheet Number	Dáte	Correction (fms)
FA-20-3-70	6-09 6-10 6-11 7-06	+0.3 +0.3 +0.3 +0.3
FA-20-4-70	6-16 6-17 6-20 6-21 6-22 6-23 6-24 6-27 6-28 8-07	+0.4 +0.4 +0.3 (+0.2) +0.2 (+0.2) +0.3 +0.3 +0.3
FA-20-5-70	7-13 7-14 7-15 7-16 7-17 7-20 7-29	+0.3 (+0.3) +0.3 +0.3 (+0.3) +0.3 +0.3
FA-20-6-70	8-03 8-04 8-06	+0.3 +0.3 (+0.3)
FA-10-7-70	7-21 7-22 7-23 7-24 7-27 7-28 7-31 8-07	+0.3 (+0.3) (+0.3) +0.3 (+0.3) +0.3 (+0.3) +0.3
FA-10-8-70	7-30 7-31	+0.3 (+0.3)

Corrections in parentheses ( ) are estimated for days when bar checks were not taken.

MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS Glacier Bay-1970

Launch FA-6 Sheet Number	Date	Correction (fms)
FA-20-3-70	6-09 6-10 6-11	+0.1 +0.2 +0.2
FA-20-4-70	6-20 6-21 7-30 8-07	(+0.2) +0.2 +0.2 (+0.2)
FA-20-6-70	8-06	(+0.2)
FA-10-7-70	7-21 7-22 7-23 7-24 7-27 7-28 7-29 8-03	+0.3 +0.2 +0.2 (+0.2) +0.2 (+0.2) (+0.2) (+0.2)
FA-10-8-70	7-30 7-31 8-02 8-03	+0.2 +0.2 +0.2 (+0.2)

Corrections in parentheses ( ) are estimated for days when bar checks were not taken.

# MSS 20

GAPT. John B. Watkins, Jr. Commanding

INITIAL CORRECTIONS Glacier Bay - 1970

Sheet Number	Positions	Corrections (fms)
FA-20-3-70	0049-0080 2037-2048 2073-2085 2090-2105	+0.4 (on F scale) +0.1 +0.1 +0.1
	8028-8064 8177-8179 8193-8205 8213-8215 8248-8255	+0.1 -0.1 +0.1 -0.1 +0.1
FA-20-4-70	8001-8021 8083-8134	-0.2 -0.1
FA-20-5-70	None	
FA-20-6-70	8005-8017 8034-8039 8064-8075 8092-8097 (1350 8128-8142	+0.1 -0.1 -0.1 -0.1
FA-10-7-70	8001-8171 8209-8230 8269-8274 8302-8318 8319-8328	+0.1 +0.1 +0.1 +0.1 +0.3
	8329-8338 8339-8351 8352-8361 8362-8370 8371-8378	+0.4 +0.5 +0.4 +0.2 +0.1

# VISUAL HYDRO SIGNAL LIST

<u>H-9139</u>			<u>FA-20-4-70</u>
Name used in Hydrographic Survey	Latitude (°' m)	Longitude (° ' m)	Origin of Station
003	<i>/</i> 58 50 1400	136 29 0544	Topo. n.m.n.d.
006	√58 47 1654	136 29 0415	△ CINCO 1966 ~
007	<i>5</i> 8 49 0388	136 25 0513	△ NEVA 1944 レ
012	<b>58 48 1241</b>	136 28 0287	Topo. n.m.n.d.
013	58 45 1215	136 26 0093	11 11
101	<del>5</del> 8 45 0040	136 10 0438	△ TLINGIT RM-1 1939~
102	<i>5</i> 8 43 0634	136 17 0573	△ LONE 1939 v reference sta.
103	√58 41 1179	136 18 0595	△ CEIKIE 1939 ~
104	√58 46 1452	136 19 0220	Topo. n.m.n.d. hydro sta.
105	<b>4</b> 58 45 0354	136 14 0918	11 11
107	<i>-5</i> 8 43 0741	136 03 0429	△ SLEEPY 1970 ∽
108	<b>-58</b> 45 0805	136 08 0918	△ sog 1970 ✓
109	<i>5</i> 8 47 0931	136 04 0573	△ SNOWWHITE 1970 ✓
301	<i>-</i> 58 44 0124	136 26 0444/	T-12775
302	,58 44 0633	136 29 0289	△ SIX 1966 ∨
331	∕58 41 1626	136 21 0681	T-12776
332	√58 43 0736	136 24 0188	11
400	<i>\$</i> 8 46 1475	136 30 0263	Topo. n.m.n.d.
401	<i>5</i> 8 47 0485	136 30 0018	11 11
402	\$8 47 1005	136 29 0422	tt tt
403	√58 47 0037	136 28 0672	tt tt
404	£8 46 1142	136 28 0746	11 11
405	<i>5</i> 8 46 0966	136 29 0766	11 11

136 29 0124

406

58 44 1539

Signal List (Continued) H-9139 (FA-20-4-70)

Name used in Survey	Latitude (°' m)	Longitude	Origin of Station
407	<b>5</b> 8 45 0917	136 28 0332	Topo. n.m.n.d.
408	£8 45 1497	136 27 0446	11 11
409	\$8 45 1010	136 26 0252	11 11
751	<i>5</i> 8 45 0087	136 12 0754	T-12771
752	<i>5</i> 8 45 0600	136 11 0326	11
753	<i>5</i> 8 45 0013	136 09 0354	11
931	<i>5</i> 8 49 1495	136 24 0005	T-12760
932	<i>5</i> 8 49 1230	136 22 0740	11
933	48 49 1183	136 21 0264	tτ
934	<i>5</i> 8 49 1447	136 19 0186	11
935	\$8 49 1392	136 17 0842	ži.
936	<i>5</i> 8 49 1038	136 16 0677	11
937	<i>i</i> 58 49 0665	136 16 0702	17
938	<i>5</i> 8 49 0657	136 18 0210	11
939	J8 49 0499	136 20 0151	11 Hydro Sta.
940	<i>5</i> 8 49 0617	136 22 0391	11
941	<b>58</b> 49 0750	136 23 0829	**

#### TRANSMITTAL SHEET

H-9139

FA-20-4-70

The field work and examination of records was accomplished under the supervision of this command. The boatsheet was inspected daily for completeness and no additional work is considered necessary.

> John B. Watkins, Jr. CAPTAIN, USESSA Commanding Officer USC&GSS FAIRWEATHER

Date To.

HREYTH CARD III

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FORM # 1

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(2) H No.		(5) SHIP OR OFFIC	E FAIRWEATHER	_
(3) FIELD NO. B		(6) DATE REQUIRED		
(7) VI SUAL	<del></del>	(8) ELECTRONIC	(FILL OUT FORM #:	3)
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# APPROVAL SHEET

The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report.)

Examined and approved,

William M. Martin

Supervisory Carto. Tech.

5/4/72

Approved and Forwarded,

Chief, Processing Division Pacific Marine Center

# TIDE NOTE FOR OPR-460, GLACIER BAY, ALASKA, 1970

Three tide gages were installed and operated during the survey. These were at Bartlett Cove, Composite Island, and on the south shore near the mouth of Geikie Inlet. Hourly heights were scaled and datalogged by ship's personnel and forwarded to PMC for processing. Marigrams were forwarded to Chief, Tides Section (C3312), Rockville, for determination of the datum, time and height relationships, and the recommended zoning. This information is to be furnished the PMC Processing Division by Chief, Tides Section.

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

December 16, 1970

Pacific Marine Center MANUCAK ENGENDUNGKK:

Plane of reference approved M volument descentions are some for

tide tape printout

HYDROGRAPHIC SHEET

9138 to 9143

Glacier Bay, Alaska Locality:

Year

Chickoft Party:

1970

Plane of reference is

mean lower low water

Tide Station Used (Form C&GS-681):

Composite Island Geike Inlet

Height of Mean High Water above Plane of Reference is as follows:

CompositeIsland

Geike Inlet

15.7 ft.

Remarks

USCOMM-DC 6680-P64

FORM 197 (3-16-55)

Or Hop's He's or recipies due Rand Method Method o Cide di Mar U.S. Light Lieb GEOGRAPHIC NAMES itor to the state Or local ways Survey No. H-9139 Or Ho. В Ε Name on Survey F Н K G 2 3 4 5 6 7 3-21-75 8. GILBERT PENINSULA 4-2-75 9 10 11 12 13 14 15 16 17 18 19 20 PREPARED BY 21 422 CARTOGRAPHIC TECHNICIAN 23 APPROVED BY 26 CHIEF GEOGRAPHER 27

FORM C&GS-946 (REV. 3-1-64) (PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

# U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY NAUTICAL CHART DIVISION

# HYDROGRAPHIC SURVEY STATISTICS

		HYDROGRA	PHIC SUI	RVEYN	o. <u>H-9/39</u>		
RECORDS ACC	OMPANYING SUR	VEY: To be com	pleted who	en survey	is registered.		1
RECORD DESCRIPTION AMOU			IOUNT	RECORD DESCRIPTION			AMOUNT
SMOOTH SHEET & PNO			/	BOAT SHEETS			/
DESCRIPTIVE REPORT /				OVERLAYS			4
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRIN	TOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES			1				
CAHIERS	/						·
VOLUMES	7						
BOXES			2				
T-SHEET PRINTS	T-SHEET PRINTS (LISE) T-12760						
SPECIAL REPOR	SPECIAL REPORTS (List)						
	The following st				CTIVITIES cartographer's repo	ort on the survey	
PROCESSING ACTIVITY			AMOUNTS				
			RE- ICATION	VERIFICATION	REVIEW	TOTALS	
POSITIONS ON SHEET							
POSITIONS CHECKED					2357	100	
POSITIONS REVISED					151	5	
DEPTH SOUNDINGS REVISED					216	20	
DEPTH SOUNDINGS ERRONEOUSLY SPACED					46	0	
SIGNALS ERRONEOUSLY <del>PLOTTED</del> OR TRANSFERRED			ED		/	3	
					TIME (MA	ANHOURS)	

TOPOGRAPHIC DETAILS 16 <u> 24</u> JUNCTIONS 30 VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS SPECIAL ADJUSTMENTS 0 0 <del>173</del>197 ALL OTHER WORK 64 <del>972</del> 396 130 TOTALS BEGINNING DATE PRE-VERIFICATION BY ENDING DATE VERIFICATION BY ENDING DATE 28 april, 1972 BEGINNING DATE 38 July, 1971 Beginning date 6 March, 1973 REVIEW BY ENDING DATE 7 april, 1975

12hrs

8/29/75-

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H-9139

Items for Future Presurvey Review

No prior hydrographic coverage exists within the limits of the present survey.  $\,$ 

Position Lat.	Index Long.	Bottom Change Index	Use <u>Index</u>	Resurvey Cycle
584	1361	1	0	50 years
584	1362	1	0	50 years
584	1363	1	0	50 years

#### OFFICE OF MARINE SURVEYS AND MAPS

#### MARINE CHART DIVISION

#### HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9139

FIELD NO. FA-20-4-70

Alaska, Glacier Bay, Tlinget Point to Tidal Inlet

SURVEYED: June 16 through August 7, 1970

SCALE: 1:20,000

PROJECT NO.: OPR-460

1:10,000 inset

SOUNDINGS:

Raytheon DE-723 and Ross CONTROL:

Sextant Fixes.

400A Depth Recorders,

on Shore

Leadline and Pole

Signals

Soundings

Chief of Party J. B. Watkins, Jr. Surveyed by J. C. Bishop
A. F. Divis
B. L. Keck
J. J. Lenart
M. R. Mulhern
W. D. Neff
J. E. Thomasson
Protracted by Ship's Personnel
Automated Plot by Gerber Digital Plotter
(PMC)
Verified and Inked by M. G. Sanders
Reviewed by M. J. Friese
Date: April 7, 1975
Inspected by G. K. Myers

# 1. Description of the Area

This survey covers an area in Glacier Bay, including Tidal Inlet on the north to Lone Island on the south.

Glacier Bay is a deep glaciated fjord with steep slopes inshore. Maximum depths of 236 fathoms are found in the deepest portions of the survey. The offshore bottom is irregular and some submerged rocky reefs and random shoals are located within the 100-fathom depth curve. Intermittent ledges and rocks are located along the boulder-strewn shores.

The predominant bottom characteristics are mud, sand, shells, gravel, stones, and boulders.

# Shoreline and Control

The source of control is adequately stated in Part F of the Descriptive Report.

The shoreline originates with unreviewed advance manuscripts T-12759 (1964-70), T-12760 (1964-70), T-12768 (1964-70), T-12769 (1964-70), T-12770 (1964-70), T-12771 (1964-70), T-12775 (1964-70), and T-12776 (1964-70). In addition, incomplete manuscript T-12761 and planetable sheet T-6754 (1940) were also applied. The foreshore characteristic shown as rocky on the advance and incomplete manuscripts was described more appropriately as boulders and cobbles as stones.

## 3. Hydrography

- A. Depths at sounding line crossings are in good agreement.
- B. The usual depth curves were adequately delineated except in some areas along steep slopes in close proximity to the shore. Dashed curves were added to better emphasize lesser depths in areas of deeper soundings.

# 4. Condition of the Survey

The survey records, automated plotting, and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual supplemented by the Instruction Manual-Automated Hydrographic Surveys.

In addition to the DE-723 depth recorder, a prototype Ross 400A depth recorder and digital display system was used. Depths recorded by these instruments were found in good agreement. Some differences between the depths determined by the digital depth unit and the analog trace of the Ross depth recorder were not considered by the verifier in areas of steep slopes.

#### 5. Junctions

An adequate junction was effected with contemporary surveys H-9138 (1970) on the northwest, H-9142 (1970) and H-9143 (1970) on the west, and H-8817 (1964) on the south. Junctions were also effected with H-6575 (1940) and H-6576 (1940) on the east.

Superseded by H-9405(1973)

# 6. Comparison with Prior Surveys

No prior surveys fall within the common area of the present survey.

# Comparison with Chart 8202 (latest print date November 3, 1973)

## Hydrography

The charted hydrography originates with the boat sheet (Bp. 79117) and the verified smooth sheet of the present survey. Charted depths are generally within one fathom of those depths on the present survey.

The present survey is adequate to supersede the charted hydrography within the common area.

## B. Aids to Navigation

There are no aids to navigation within the limits of this survey.

# Compliance with Project Instructions

This survey adequately complies with the project instructions.

# 9. Additional Field Work

This is a very good basic survey and no additional hydrography is recommended.

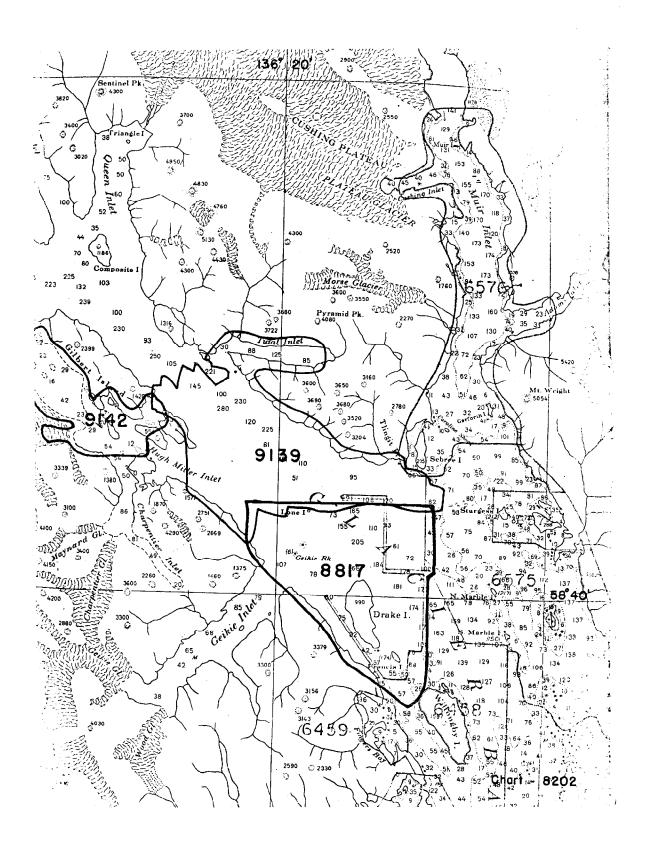
Examined and Approved:

Chief Marine Chart Division

Associate Director

Office of Marine Surveys

and Maps



# RECORD OF APPLICATION TO CHARTS

H-9139

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

#### INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

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