

9143

9143

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 . HYDROGRAPHIC
Field No. ... GLACIER BAY
Office No. H-9143

LOCALITY

State ALASKA
General Locality . GLACIER BAY
Locality . CHARPENTIER INLET

1970

CHIEF OF PARTY

..... John B. Watkins, JR.

LIBRARY & ARCHIVES

DATE July 7, 1972

HYDROGRAPHIC TITLE SHEET

H-9143

INSTRUCTIONS - The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

FIELD NO.

FA-10-8-70

State Alaska

General locality Southeast Alaska Glacier Bay

Locality Glacier Bay Charpentier Inlet and Vicinity

Scale 1:10,000 Date of survey 29 Jul 70-2 Aug 1970

Instructions dated 26 March 1970 Project No. OPR - 460

Vessel USC&GSS FAIRWEATHER Launches #3, #4, #5, and #6.

Chief of party CAPT. John B. Watkins, Jr.

Surveyed by LT. B. L. Keck, LTJG W. D. Neff, LTJG M. R. Mulhern

Soundings taken by echo sounder, ~~hand lead, pole~~ Raytheon DE-723, Serial Nos. 558, 559.
Ross 400A Fineline Digital Fathometer

Graphic record scaled by FAIRWEATHER personnel

Graphic record checked by FAIRWEATHER personnel

Positions Verified

Projected by Matthew G. Sanders Automated plot by PMC - Gerber Digital plotter

Verified

Soundings penciled by Matthew G. Sanders

Soundings in fathoms ~~400~~ at ~~MLW~~ MLLW

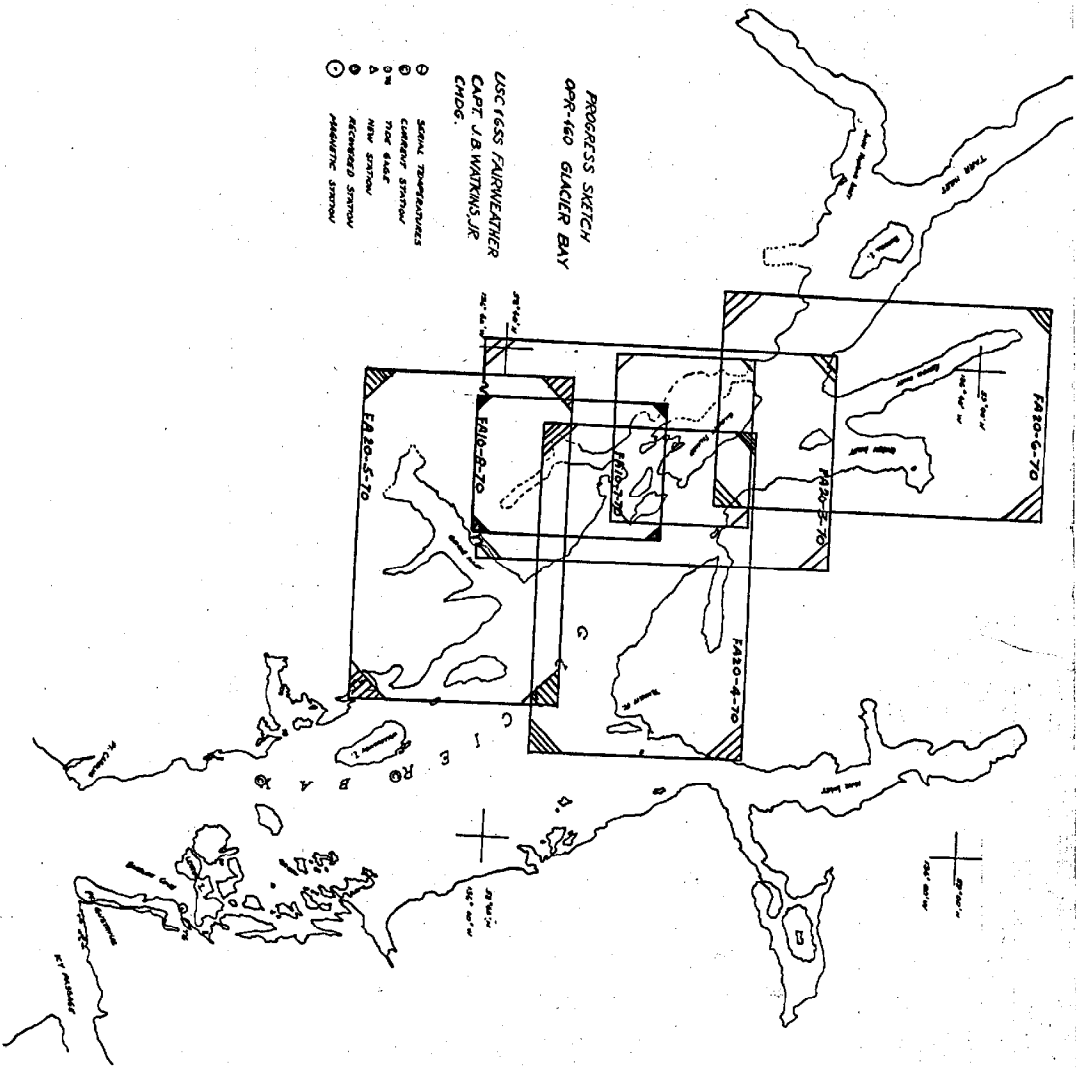
REMARKS: Chart 8202

Applied to std 7/14/72
CBP.

PROGRESS SKETCH
 APR-60 GILGIER BAY

USC (SS) FAIRWEATHER
 CAPT. J.B. WATKINS, JR.
 CHOC.

- SONAR TEMPERATURES
- CURRENT SYMBOL
- △ TIDE GAUGE
- NEW SYMBOL
- RECORDED SYMBOL
- MAGNETIC SYMBOL



Descriptive Report
to Accompany
Hydrographic Sheet H-9143 (FA-10-8-70)
Glacier Bay, Alaska
Scale 1:10,000
USC&GSS FAIRWEATHER (MSS 20)
CAPT. John B. Watkins, Jr. Commanding

A. PROJECT

Hydrographic Survey H-9143 (FA-10-8-70) was accomplished under OPR-460 according to instructions dated 26 March 1970.

B. AREA SURVEYED

This survey was performed in Hugh Miller and Charpentier Inlets. The Hugh Miller portion of the survey is bounded on the north and south by the limits of the inlet. The east and west limits are 136° 26.5'W and 136° 30.5'W.

The Charpentier portion of the survey is bounded on the south, east, and west by the limit of the inlet and on the north by 58° 45.5'N.

Junction is made with contemporary surveys H-9142 ⁽¹⁹⁷⁰⁾
(~~FA 10-7-70~~) on the north and west, and with H-9139 ⁽¹⁹⁷⁰⁾
(~~FA 20-4-70~~) on the east.

C. SOUNDING VESSELS

Four FAIRWEATHER launches were used to accomplish the work on this sheet. The following are color codes and position numbers applicable to each vessel:

FA-3	Green	2001 - 2630
FA-4	Blue	4001 - 4362
FA-5	Red	6001 - 6025
FA-6	Brown	8001 - 8421

D. SOUNDING EQUIPMENT

echo sounders
Raytheon Model DE-723 ~~fathometers~~, Serial Numbers 559 and 558 were used on Launches FA-3 and FA-6 respectively. Launch FA-4 was equipped with the Ross 400A Fineline Fathometer (Ross Laboratories, Seattle, Washington). Launch FA-5 was used for taking bottom samples, but no sounding lines.

Velocity corrections were obtained using temperature and salinity data from Nansen casts. Echo corrections are based on daily bar checks. These corrections are tabulated at the end of this report.

Sounding corrections are treated more fully in the Fathometer Report, OPR-460, USC&GSS FAIRWEATHER, 1970.

E. SMOOTH SHEET

The position and sounding data were recorded, logged for automated processing, and plotted on boat sheets by ship's personnel. The signal list was prepared and a signal overlay that was plotted by the Gerber Digital Plotter was verified by ship's personnel. The final smooth sheet is to be plotted electronically and verified by personnel at Pacific Marine Center.

F. CONTROL

All hydrography was accomplished by visual fix methods. Control signals were established from triangulation stations, traverse points, and from photo-identified stations. Photo-located points were transferred from 1:10,000 scale photographs to Advance Manuscript T-12768 (1:10,000) by radial methods and directly from the manuscript to the boatsheet. Hydro signals were located by third order traverse methods and computed by ship's personnel.

G. SHORELINE

Shoreline was transferred directly to the boat sheet from Advance Manuscripts T-12768, T-12774, T-12775, and T-12780 and verified in the field using the field ratio prints and the field edit ozalid copies of the Advance Manuscripts. In addition, Advance Manuscript T-12767 (1964-70) was applied.

Minor discrepancies in the form of gravel beaches interpreted as ledges and rocks which were not verified are noted on the Field Edit Ozalids and referenced to appropriate photographs. Shoreline interpretation was, in general, good.

The low water line was defined, where possible, but beach lines could not be run in many areas due to steeply sloping shores and the presence of ledges.

H. CROSSLINES

Crosslines, consisting of approximately ten percent of the regular sounding lines, were generally in good agreement. Bad crossings, noted at $58^{\circ} 42.1'N$, $136^{\circ} 30.7'W$ and $58^{\circ} 42.3'N$, $136^{\circ} 30.7'W$ in Charpentier Inlet were due to steep slopes and the difference in transducer beam width between the Raytheon and Ross fathometers. The Raytheon tends to record stray side echoes to a greater extent than does the Ross. Shoaler soundings were used in all instances.

I. JUNCTIONS

The junctions listed in Section B above were found to be in good agreement.

J. COMPARISON WITH PRIOR SURVEY

There were no prior surveys or Pre-Survey Reviews for the area covered by this sheet.

K. COMPARISON WITH THE CHART

A comparison was made with USC&GS Chart 8202,

(4)

15th Edition, October 21, 1968, scale 1:209,978. Soundings, generally, are in good agreement. However, the small scale of the chart in addition to its paucity of soundings prevents valid comparison.

L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supersede prior surveys for charting purposes.

M. AIDS TO NAVIGATION

There were no aids to navigation within the area covered by this survey.

N. STATISTICS

	<u>FA-3</u>	<u>FA-4</u>	<u>FA-5</u>	<u>FA-6</u>
Positions	630	362	25	421
Sounding lines (n.m.)	71.4	50.0	0.0	43.2
Area surveyed (n.m. ²)	5.0	2.7	0.0	2.7
Bottom samples	0	0	25	0
Oceanographic stations	0	0	0	0

O. MISCELLANEOUS

None.

P. RECOMMENDATIONS

No additional field work is recommended in the area covered by this report.

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).

(5)

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 8/21/70).
8. Geographic Names Report, OPR-460, USC&GSS FAIRWEATHER, 1970. (To be forwarded).

Respectfully submitted,

Bruce L. Keck

Bruce L. Keck
LT, USESSA

USC&GSS FAIRWEATHER

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-10-8-70FA-20-3-70
FA-20-4-70
FA-20-5-70
FA-20-6-70

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

USC&GSS FAIRWEATHER

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	+0.1
	6-17	+0.1
	6-18	+0.2
	7-24	+0.2
	7-27	+0.2
FA 20-4-70	6-18	+0.2
	6-27	+0.2
	6-28	+0.2
	7-17	+0.2
	7-20	+0.1
	7-21	+0.1
	7-22	(+0.2)
	7-23	+0.3
7-27	+0.2	
FA 20-5-70	7-14	+0.3
	7-15	(+0.2)
	7-17	+0.2
	8-03	(+0.2)
	8-04	+0.2
8-06	+0.1	
FA 10-7-70	8-02 <small>S.D.</small>	(+0.2)
FA 10-8-70	7-29 (210)	+0.2
	7-30 (211)	(+0.2)
	7-31 (212)	+0.2
	8-02 (214)	(+0.2)

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

USCGROSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS
Glacier Bay-1970

Launch FA-4 Sheet Number	Date	Correction (fms)
FA-20-3-70	6-09	+0.3
	6-10	+0.3
	6-11	+0.3
	7-06	+0.3
FA-20-4-70	6-16	+0.4
	6-17	+0.4
	6-20	+0.3
	6-21	(+0.2)
	6-22	+0.2
	6-23	(+0.2)
	6-24	+0.3
	6-27	+0.3
	6-28	+0.3
8-07	+0.3	
FA-20-5-70	7-13	+0.3
	7-14	(+0.3)
	7-15	+0.3
	7-16	+0.3
	7-17	(+0.3)
	7-20	+0.3
	7-29	+0.3
FA-20-6-70	8-03	+0.3
	8-04	+0.3
	8-06	(+0.3)
FA-10-7-70	7-21	+0.3
	7-22	(+0.3)
	7-23	(+0.3)
	7-24	+0.3
	7-27	(+0.3)
	7-28	+0.3
	7-31	(+0.3)
8-07	+0.3	
FA-10-8-70	7-30 ^{J.B.} (211)	+0.3
	7-31 (212)	(+0.3)

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

USC&GSS FAIRWEATHER

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	+0.1
	6-10	+0.2
	6-11	+0.2
FA-20-4-70	6-20	(+0.2)
	6-21	+0.2
	7-30	+0.2
	8-07	(+0.2)
FA-20-6-70	8-06	(+0.2)
FA-10-7-70	7-21	+0.3
	7-22	+0.2
	7-23	+0.2
	7-24	(+0.2)
	7-27	+0.2
	7-28	(+0.2)
	7-29	(+0.2)
8-03	(+0.2)	
FA-10-8-70	7-30 ^{J.B.} (211)	+0.2
	7-31 (212)	+0.2
	8-02 (214)	+0.2
	8-03 (215)	(+0.2)

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

INITIAL CORRECTIONS
Glacier Bay - 1970

Sheet Number	Positions	Corrections (fms)		
	8506-8518	-0.1		
	8527-8569	+0.2		
	8582-8598	-0.7		
	8730-8734	-0.3		
	8785-8833	+0.1		
	8871-8875	+0.1		
✓FA-10-8-70	✓8123-8131	+0.2	Ech = 0.2	TRA = 0.4
Launch VI	✓8132-8141	+0.1		0.3
	✓8142-8157	+0.4		0.6
	✓8158-8188	+0.3		0.5
	✓8189-8196	+0.2		0.4
	✓8197-8214	+0.5		0.7
	✓8215-8233	+0.4	10.2	TRA = 0.6
	✓8234-8261	+0.3		0.5
	✓8262-8273	-0.2	10.2	0.0 No TRA corrects.
	✓8274-8319	+0.1		0.3
	✓8389-8418	+0.2		0.4
	✓8419-8421	+0.1		0.3

H-9143

VISUAL HYDRO SIGNAL LIST

FA-10-8-70

<u>Name Used in Hydrographic Survey</u>	<u>Latitude (° ' m)</u>	<u>Longitude (° ' m)</u>	<u>Origin of Station</u>
013	58 45 1215	136 26 0093	Traverse
301	58 44 0124	136 26 0444	"
302	58 44 0632	136 29 0289	SIX 1966 (<i>Reference Sta.</i>)
374	58 45 0812	136 31 0755	FOUR 1966
381	58 46 0462	136 33 0053	Traverse
382	58 45 1842	136 31 0872	3rd Ord. Trav.
383	58 46 1186	136 32 0031	" " "
384	58 46 1534	136 31 0594	" " "
385	58 46 0487	136 30 0633	" " "
386	58 45 0969	136 30 0455	" " "
387	58 45 0709	136 33 0344	" " "
388	58 45 1855	136 35 0288	" " "
393	58 45 1665	136 29 0501	Sextant Fix <i>Hydro Sta.</i>
396	58 44 0903	136 28 0220	" " <i>Hydro Sta.</i>
400	58 46 1475	136 30 0263	3rd Ord. Trav.
401	58 47 0485	136 30 0018	" " "
402	58 47 1005	136 29 0422	" " "
403	58 47 0037	136 28 0672	" " "
404	58 46 1142	136 28 0746	" " "
405	58 46 0966	136 29 0766	" " "
406	58 44 1539	136 29 0124	" " "
407	58 45 0917	136 28 0332	" " "
408	58 45 1497	136 27 0446	" " "
409	58 45 1010	136 26 0252	" " "

Visual Hydro Signal List (Page 2)

H-9143
FA-10-8-70

<u>Name Used In Survey</u>	<u>Latitude (° ' m)</u>	<u>Longitude (° ' m)</u>	<u>Origin of Station</u>
410	58 44 0663	136 29 0852	3rd Ord. Trav.
411	58 44 1258	136 32 0028	" " "
412	58 43 1696	136 31 0663	" " "
413	58 43 1368	136 30 0726	" " "
414	58 44 1556	136 31 0349	" " "
415	58 42 1762	136 32 0042	" " "
416	58 42 0967	136 30 0712	" " "
417	58 42 0316	136 31 0386	" " "
418	58 41 1302	136 29 0820	" " "
419	58 41 0737	136 28 0874	" " "
420	58 40 1667	136 28 0595	" " "
421	58 40 1245	136 27 0594	" " "
422	58 40 0344	136 27 0172	" " "
423	58 40 0117	136 26 0536	" " "
424	58 40 1017	136 27 0878	Sextant Fix <i>Hydro Sta.</i>
425	58 41 0654	136 29 0386	" " <i>Hydro Sta.</i>
426	58 41 1590	136 29 0530	" " <i>Hydro Sta.</i>
427	58 40 0825	136 27 0015	" " <i>Hydro Sta.</i>
661	58 45 1537	136 28 0364	T-12768
662	58 46 0250	136 28 0295	T-12768
663	58 46 0268	136 28 0811	T-12768
664	58 46 0794	136 28 0806	Sextant Fix <i>Hydro Sta.</i>

Signals Updated

SIGNAL PLOTTER CARDS

9143

		LATITUDE	LONGITUDE	X	Y	X	cards
0	013	70 58453927	136260578	00619	11909	013	243
0	301	70 58440401	136262760	00984	08903	301	243
0	302	70 58442043	136291797	03862	09425	302 Δ	243
0	374	70 58452624	136314696	06377	11573	374 Δ	243
0	381	70 58461493	136303330	07665	13155	381	243
0	382	70 58455953	136315425	06500	12654	382	243
0	383	70 58463833	136320193	06629	12915	383	243
0	384	70 58464958	136313697	06208	14280	384	243
0	3	70 58461574	136303939	05237	13181	385	243
0	300	70 58453132	136302830	05050	11737	386	243
0	387	70 58452291	136332139	07972	11466	387	243
0	388	70 58455995	136351792	09937	12571	388	243
0	393	70 58455381	136293117	04085	12468	393 Hydro	252
0	396	70 58442918	136281368	02776	09720	396 Hydro	252
0	400	70 58464767	136301637	04848	14218	400	243
0	401	70 58471567	136300112	04591	15128	401	243
0	402	70 58473248	136292627	04004	15674	402	243
0	403	70 58470120	136284183	03254	14658	403	243
0	404	70 58463691	136284642	03331	13868	404	243
0	405	70 58463122	136294767	04364	13684	405	243
0	406	70 58444974	136290771	03689	10387	406	243
0	407	70 58452964	136282065	02895	11684	407	243
0	408	70 58454838	136272774	02007	12293	408	243
0	409	70 58453264	136261567	00786	11783	409	243
0	410	70 58442143	136295296	04453	09468	410	243
0	411	70 58444066	136370174	06628	10092	411	243
0	412	70 58435481	136314121	06281	08603	412	243
0	413	70 58434421	136304512	05334	08259	413	243
0	414	70 58445029	136312170	05951	10405	414	243
0	415	70 58425694	136320261	06643	06723	415	243
0	416	70 58423125	136304422	05319	05888	416	243
0	417	70 58421021	136312397	05991	05205	417	243
0	418	70 58414208	136295091	04417	04291	418	243
0	419	70 58412382	136285425	03459	03698	419	243
0	420	70 58405387	136283693	03166	02725	420	243
0	042100 000000 1 00000	58404025	136273664	02145	02282	421	243
0	422	70 58401112	136271067	01705	01337	422	243
0	423	70 58400378	136263325	01072	01100	423	243
0	424	70 58403287	136275448	02447	02043	424 Hydro	252
0	425	70 58412114	136292396	03962	03611	425 Hydro	252
0	426	70 58415139	136293291	04113	04504	426 Hydro	252
0	427	70 58402666	136270093	01541	01842	427 Hydro	252
0	661	70 58454967	136282264	02929	12334	661	243
0	662	70 58460808	136281835	02857	12932	662	243

60 663
60 664

70 58460866 136285046 03399 12961
70 58462566 136285015 03394 13503

663
664 *Hydro 252*

T R I A N G U L A T I O N P L O T T E R C A R D S

H-NO.-			LATITUDE	LONGITUDE	X	Y
20160	010000	000000	1 00000	58441547	136281662	02826 09273 02842 100 00
20160	010100	000000	1 00000	58442044	136291796	03862 09435 03878 101 00
20160	010200	000000	1 00000	58452624	136314696	06378 11572 06394 102 00

H Y D R O - S I G N A L C A R D S

P NO.	NO.	LATITUDE	LONGITUDE	NAME	
160	100	58441547	136281662	HUMI E B	1
160	101	58442044	136291796	SIX 1966	1
160	102	58452624	136314696	FOUR 1966	1

PARAMETER CARDS

Field No. H11
 Date JUN 28 1976
 E DAT 20160 APR 760
PARAMETER CARD II

Serial reference of the earth		6.378.206.4		RDA	1 6	2 3	3 7	4 8	5 2	6 0	7 6	8 4	9 0	10 7
Constant - Distance from central meridian to origin of plotter SP 5		meters		YNI	11	12	13	14	15	16	17	18	19	20
Y Constant - Distance from equator to origin of plotter SP 271		meters		YI1	21	22	23	24	25	26	27	28	29	30
Central Meridian of Projection		meters		YI2	6	5	0	4	4	0	0	0	0	7
Plotter Scale/Survey Scale		1:30798.6876		ONI	31	32	33	34	35	36	37	38	39	40
North/south axis of sheet - to correspond to (Y axis - 0)		1 - feet		OCI	41	42	43	44	45	46	47	48	49	50
Feet/Fathom indicator		0 - feet		SCI	1	0	4	9	8	6	8	8	0	1
H Identification No.		1 - fathom		NCI										
				FOI										52
				JNI	53	54	55	56	57	58	59	60	61	62
				YRI	2	0	1	6	0	0	0	0	0	0

POP - 1

PARAMETER CARD III

Lowest Lat. Intersection	0	5	8	4	0	0	0	0	0	0	0	0	0	0
Lowest Long. Intersection	1	3	6	2	0	0	0	0	0	0	0	0	0	0
Difference between Grid														
Interval (Long)														
Interval (Lat)														

Computed
 Plotted
 Checked
 Date

John A. ...
.95
6-19-7

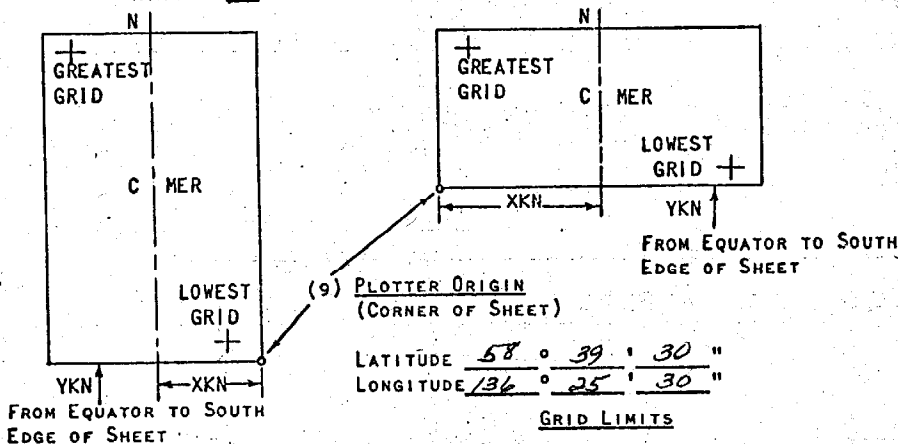
FORM # 1

FIG. 15

EDAT - 20160

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

- (1) PROJECT No. OPP-460 (GHAUSE DAY) (4) REQUESTED BY _____
- (2) H No. 9143 (5) SHIP OR OFFICE FAIR WEATHER
- (3) FIELD No. FA-10-8-70 (6) DATE REQUIRED _____
- (7) VISUAL (8) ELECTRONIC (FILL OUT FORM 13)
- (10) XKN (SP 5) DISTANCE FROM CMER TO EAST EDGE (NYX = 1) OR WEST EDGE (NYX = 0). 4837.2 METERS
- (11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE OF SHEET. 6,504,400.620 METERS
- (12) CENTRAL MERIDIAN 136° 30' 30"
- (13) SURVEY SCALE 1: 10,000
- (14) SIZE OF SHEET (CHECK ONE) 36x54 42x60 OTHER
- (15) NYX, ORIENTATION OF SHEET (CHECK ONE) NYX = 1 NYX = 0



- GRID LIMITS
- (16) GREATEST LATITUDE 58° 47' 00" (PROJECTION LINE
 - (17) LOWEST LATITUDE 58° 40' 00" INTERVAL, PAGE 4
 - (18) DIFFERENCE ° 7' 00" HYDRO MANUAL)
 - (19) 130"
 - (20) 14 YSN
 - (21) GREATEST LONGITUDE 136° 36' 00"
 - (22) LOWEST LONGITUDE 136° 26' 00"
 - (23) DIFFERENCE ° 9' 00"
 - (24) 130"
 - (25) 18 XSN


2 SHEETS { 1 on Stabilene
 { 1 on MYLAR

TRANSMITTAL SHEET

H-9143

FA-10-8-70


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

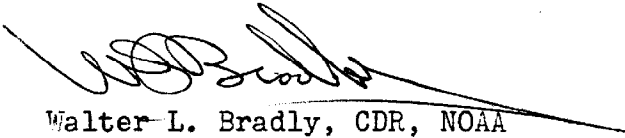
APPROVAL SHEET

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.
6/26/72

Approved and Forwarded,


Walter L. Bradley, CDR, NOAA
Chief, Processing Division
Pacific Marine Center

TIDE NOTE FOR HYDROGRAPHIC SHEET

December 16, 1970

~~NAME OF ESTABLISHMENT:~~ Pacific Marine Center

Plane of reference approved in
~~VOLUMES OF SOUNDING RECORDS~~ for tide tape printout

HYDROGRAPHIC SHEET 9138 to 9143

Locality: Glacier Bay, Alaska

Year
~~CHIEF OF 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:

Composite Island	15.7 ft.
Geike Inlet	15.5 "

Remarks

J. M. Symons
Chief, Tides and Currents Branch

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 data-logged 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.

GEOGRAPHIC NAMES

~~CASEY POINT~~ Casey Point has been repudiated as a name both by the
Alaska Board and the U.S. Board on Geographic Names.
A. J. Wright
7-19-72

CHARPENTIER INLET O.K. a.j.w.

EAST GILBERT ISLAND O.K. a.j.w.

HUGH MILLER INLET O.K. a.j.w.

SIX COVE O.K. a.j.w.

WEST GILBERT ISLAND O.K. a.j.w.

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

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

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. H-9143

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered.

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET & PNO		/	BOAT SHEETS		/	
DESCRIPTIVE REPORT		/	OVERLAYS		3	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	/					
VOLUMES	4					
BOXES						
T-SHEET PRINTS (List)						
SPECIAL REPORTS (List)						

OFFICE PROCESSING ACTIVITIES

The following statistics will be submitted with the cartographer's report on the survey

PROCESSING ACTIVITY	AMOUNTS			
	PRE-VERIFICATION	VERIFICATION	REVIEW	TOTALS
POSITIONS ON SHEET				1438
POSITIONS CHECKED		1417	60	
POSITIONS REVISED		59	2	
DEPTH SOUNDINGS REVISED		109	12	
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0	0	
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0	0	
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		16	18	
JUNCTIONS		8	6	
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		221	18	
SPECIAL ADJUSTMENTS		0	0	
ALL OTHER WORK		99	23	
TOTALS		344	65	
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY <i>S.S. Sanders</i>	BEGINNING DATE 17 February, 1971		ENDING DATE 6 June, 1972	
REVIEW BY <i>Maatje...</i>	BEGINNING DATE 21 April, 1975		ENDING DATE 6 May, 1975	

Insp. *H. R. Myers* 7 hrs 9/16/75

Carstens 6 hr 9/24/75

Reg. No. 9148

The Computer and Excess Sounding Cards for this survey have not been corrected to reflect the changes made to the Computer Card and Excess Card Printouts at this time of the review.

When the cards have been updated to reflect the final results of the survey the following shall be completed:

CARDS CORRECTED

DATE _____ TIME REQ'D _____ INITIALS _____

REMARKS:

Reg. No. _____

The magnetic tape containing the data for this survey has not been corrected to reflect the changes made during evaluation and review.

When the magnetic tape has been updated to reflect the final results of the survey, the following shall be completed:

MAGNETIC TAPE CORRECTED

DATE _____ TIME REQ'D. _____ INITIALS _____

REMARKS:

H-9143

Items for Future Presurvey Reviews

No prior hydrographic coverage exists within the limits of the present survey. However, any future survey should consider obtaining the least depth on the 3.2-fathom shoal at lat. $58^{\circ}45.16'$, long. $136^{\circ}31.55'$ and the 2.5-fathom shoal at lat. $58^{\circ}45.47'$, long. $136^{\circ}29.96'$.

<u>Position Index</u>		<u>Bottom Change</u>	<u>Use</u>	<u>Resurvey</u>
<u>Lat.</u>	<u>Long.</u>	<u>Index</u>	<u>Index</u>	<u>Cycle</u>
584	1363	2	0	50 years
584	1364	2	0	50 years

OFFICE OF MARINE SURVEYS AND MAPS

MARINE CHART DIVISION

MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY NO. H-9143

FIELD NO. FA-10-8-70

Alaska, Glacier Bay, Charpentier Inlet and Vicinity

SURVEYED: July 29 through August 2, 1970

SCALE: 1:10,000

PROJECT NO.: OPR-460

SOUNDINGS: Hand Leadline Soundings,
Raytheon DE-723 Echo
Sounder, Ross 400A Fineline
Digital Echo Sounder

CONTROL: Visual Fixes
on Shore
Signals

Chief of Party J. B. Watkins, Jr.
Surveyed by B. L. Keck
..... W. D. Neff
..... M. R. Mulhern
Automated Plot by Gerber Digital Plotter
(PMC)
Verified and Inked by M. G. Sanders
Reviewed by M. J. Friese
..... Date: May 6, 1975
Inspected by G. K. Myers

1. 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-12767 (1964-70), T-12768 (1964-70), T-12774 (1964-70), T-12775 (1964-70), and T-12780 (1964-70). The foreshore characteristic shown as rocky on the advance manuscripts was described more appropriately as boulders. The mean high water line is shown for guidance only and, except for revisions in red determined by the hydrographer, the true position is shown on the topographic sheets previously discussed.

2. Hydrography

A. Depths at sounding line crossings are in good agreement.

B. The usual depth curves are adequately delineated, except in some areas in close proximity to the shore or where ledge made passage dangerous. Dashed curves were added to emphasize lesser depths in areas of deeper soundings.

C. The development of the bottom configuration and the investigation of least depths are adequate, except that the 3.2-fm. sounding in lat. $58^{\circ}45.16'$, long. $136^{\circ}31.55'$, and the 2.5-fm. sounding in lat. $58^{\circ}45.47'$, long. $136^{\circ}29.96'$ should have been investigated for least depth.

3. 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, except as follows:

A. A minus 1-fm. phase correction was not applied to soundings from positions 4001-4013 along a crossline.

B. Application of the dotted low water line from the shoreline manuscripts was incomplete.

4. Junctions

An adequate junction was effected on the east with H-9139 (1970) and on the north with H-9142 (1970).

5. Comparison with Prior Surveys

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

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

A. Hydrography

The charted hydrography originates with the boat sheet (Bp. 79118) of 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.

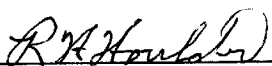
7. Compliance with Project Instructions

This survey adequately complies with the project instructions.

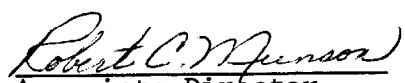
8. Additional Field Work

This is a good basic survey and no additional hydrography is required.

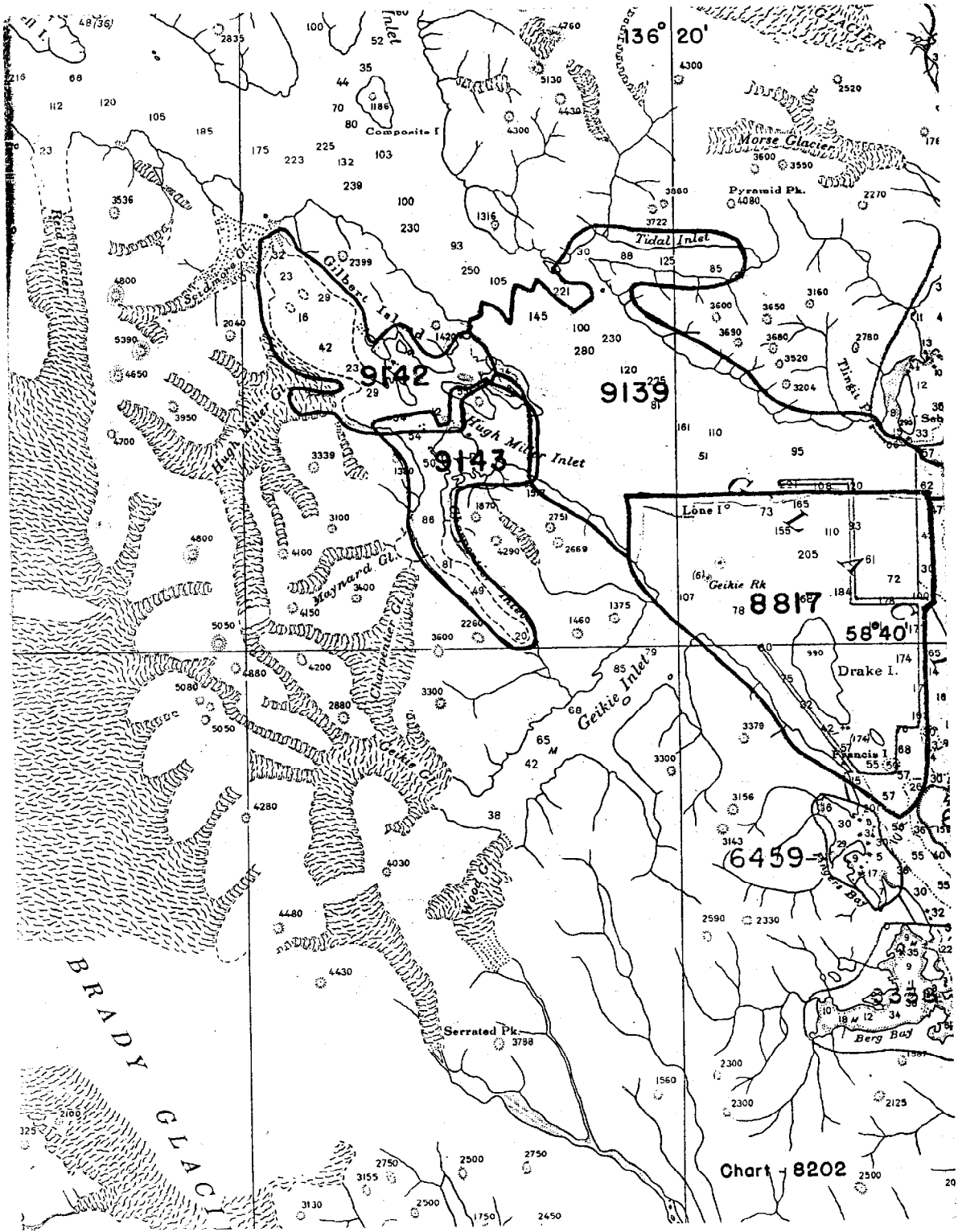
Examined and Approved:



Chief
Marine Chart Division



Associate Director
Office of Marine Surveys
and Maps



48(36)

136° 20'

9142

9139

9143

8817

6459

58° 40'

Chart 8202

BRADY GLAC

Chart 8202

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9143

INSTRUCTIONS

1. A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.
2. Letter all information.
3. In "Remarks" column cross out words that do not apply.
4. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

CHART	DATE	CARTOGRAPHER	REMARKS
8202	6/20/73	James Mahan	Full Part Before After Verification ^{Before} Review Inspection Signed Via Drawing No. 20 <i>Applied more critical conditions only after verification</i>
8202	10/14/78	H.J. Brawska	Full Part Before After Verification Review Inspection Signed Via Drawing No. Exam'd DIR only after Insp. No corr. spp'd.
17318	4/11/79	H.J. Brawska	Full Part Before After Verification Review Inspection Signed Via Drawing No. #1 Fully spp'd all hydro.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
			Full Part Before After Verification Review Inspection Signed Via Drawing No.
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