9121

Diag. Cht. No. 8252-2.

FORM C&GS-504

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. FA-20-1-70 Office No. H-9121

LOCALITY

State Alaska

General locality ~~Southeast Alaska~~ Peril Strait

Locality ~~Peril Strait~~ Ft Thatcher to Pt. Benham

1970

CHIEF OF PARTY

J. B. Watkins, Jr.

LIBRARY & ARCHIVES

DATE 3/27/73

USCOMM-DC 87022-P66

9121

FORM C&GS-537 (0-66)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

REGISTER NO.

H-9121

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.

FIELD NO.

FA-20-1-70

State: Alaska

General locality: ~~Southeast Alaska~~ Peril Strait

Locality: Pt. Thatcher to Pt. Benham ~~Peril Strait~~

Scale: 1:20,000 Date of survey: 25 April - 25 May 1970

Instructions dated: 2 March 1970 Project No.: OPR-488

Vessel: USC&GSS FAIRWEATHER, and Launches FA-3, FA-4, FA-6.

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

Surveyed by: LTJG W. D. Neff, LTJG A. F. Divis, LT B. L. Keck

Soundings taken by echo sounder, hand lead, ~~pole~~: Raytheon DE-723 (Serial Nos. 559, 529, 558) Ross Fineline 400A (Prototype)

Graphic record scaled by: FAIRWEATHER personnel

Graphic record checked by: FAIRWEATHER personnel

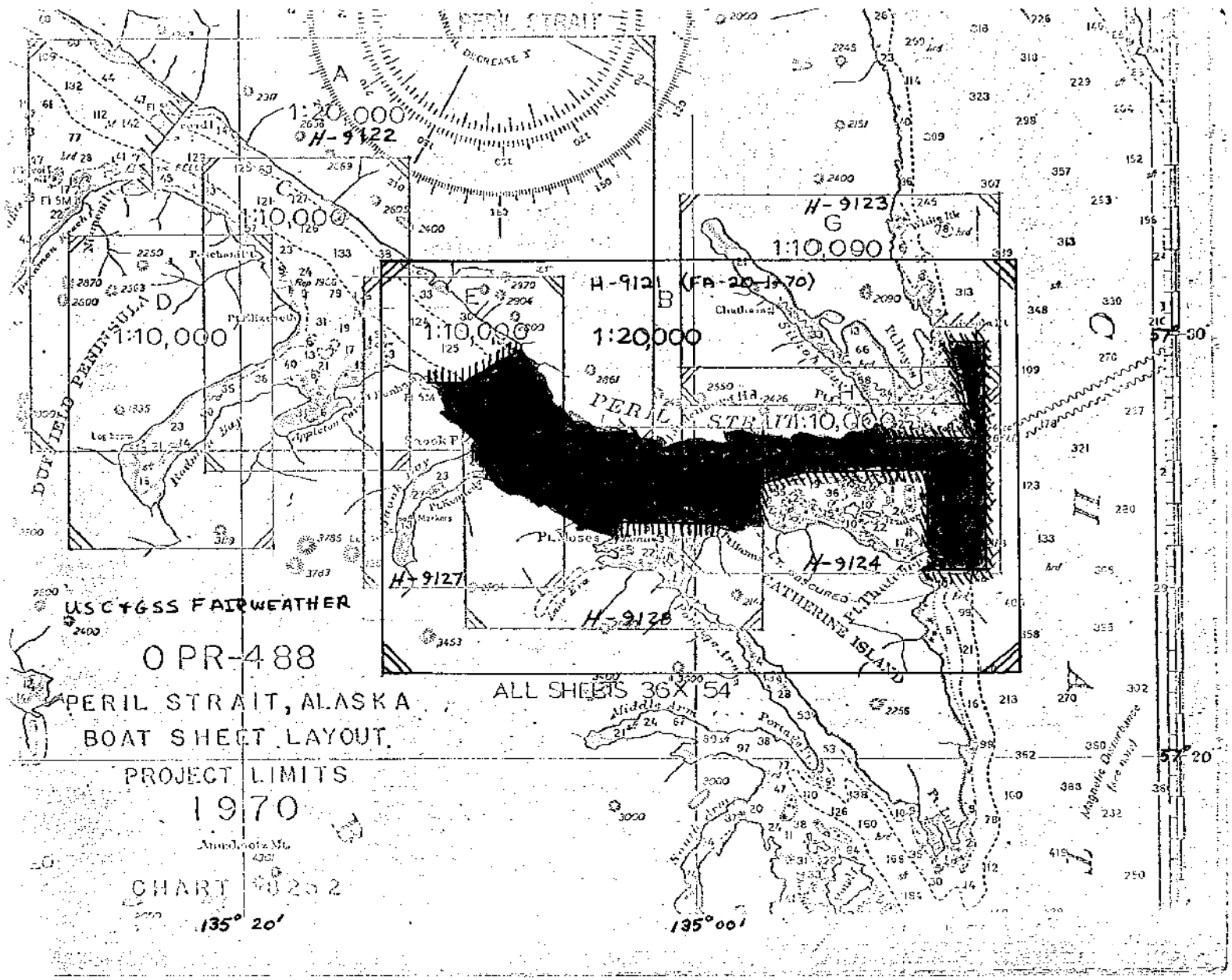
~~Protracted~~ Positions verified by: A.E. Eichelberger Automated plot by: PMC

Soundings ~~penciled~~ Verified by: A.E. Eichelberger

Soundings in fathoms ~~feet~~ at ~~all~~ MLLW

REMARKS:

USCOMM-DC 57009-P66


PERIL STRAIT
A
1:20,000
H-9122
C
1:10,000
H-9123
G
1:10,000
H-9121 (FA-20-1970)
B
1:20,000
D
1:10,000
E
1:10,000
PERIL STRAIT
1:10,000
H-9124
H-9127
H-9126
USCTGSS FAIRWEATHER
OPR-488
PERIL STRAIT, ALASKA
BOAT SHEET LAYOUT.
PROJECT LIMITS
1970
CHART 9052
ALL SHEETS 36" X 54"
135° 20'
135° 00'
57° 30'
57° 20'

Descriptive Report

to Accompany

Hydrographic Sheet H-9121 (FA-20-1-70)

Scale 1:20,000

USC&GSS FAIRWEATHER (MSS 20)

CAPT. John B. Watkins, Jr. Comdg.

A. PROJECT

This survey was part of OPR-488, Peril Strait, Alaska. It was accomplished under project instructions dated 2 March 1970, change number 1 dated 17 March 1970, and in accordance with the Pacific Marine Center OPORDER.

B. AREA SURVEYED

The area surveyed was Peril Strait, Alaska, from the entrance of Peril Strait to Pt. Benham; bounded on the north by Chichagof Island and on the south by Baranof Island, with the exception of areas surveyed on other sheets of the project as indicated by the sheet layout on the index of sheets.

Control was established from 8 April to 17 April, 1970, and hydrography was accomplished from 25 April to 25 May, 1970.

Junction was made with contemporary surveys H-9122 (FA-20-2-70), H-9123 (FA-10-1-70), H-9124 (FA-10-2-70), H-9127 (FA-10-5-70), and H-9128 (FA-10-6-70).

C. SOUNDING VESSELS

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

FAIRWEATHER	Violet	0001-0267
Launch FA-3	Green	2001-2408
Launch FA-4	Blue	4001-4527
Launch FA-6	Brown	8001-8503

D. SOUNDING EQUIPMENT

Raytheon Model DE-723 fathometers were used on the ship and in two of the launches; Serial No. 558 aboard the FAIRWEATHER, Serial No. 559 on Launch FA-3, and Serial No. 529 on Launch FA-6. Depths ranged to 180 fathoms in the surveyed area.

A Ross 400A Fineline fathometer was used in Launch FA-4. Depths ranged to 330 fathoms in the surveyed area.

The echo sounder velocity corrections were determined by serial temperature and salinity observations. Corrections to be applied also include the initial corrections and the results of bar checks. An abstract of the cumulative corrections to the soundings is included with this report.

E. SMOOTH SHEET

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

F. CONTROL

Visual control using triangulation, photo-hydro, and hydrographic signals was used throughout the survey. The two hydrographic signals used were located using sextant fixes plotted on a 1:20,000 boat sheet (mylar) and then transferred to the paper boat sheet. The photo-hydro signals were transferred using proportional dividers from 1:10,000 incomplete map manuscripts T-13327, T-13329, and T-13331.

A list of signals and their locations is included with this report.

G. SHORELINE

Shoreline was transferred directly to the boat sheet from the Incomplete Manuscripts T-11941 and T-11940, T-11942. In areas where 1:20,000 reductions of the incomplete map manuscripts were not made available or where the manuscripts were not available at the time of hydrography, the hydrography was accomplished without the use of shoreline and only the approximate low water line was indicated on the boat sheet. Shoreline details were verified using field matte prints. Discrepancies were found in the form of several rock ledges omitted on the photogrammetric compilation. The discrepancies were noted on "Field Edit Ozalids" and were referenced to appropriate matte prints.

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

H. CROSSLINES

Crosslines consisting of about twelve percent of the total survey mileage were run. Crossings were satisfactory throughout.

I. JUNCTIONS

Good agreement was found at the junctions between this boat sheet and the contemporary surveys H-9123, H-9124 H-9127, and H-9128. There was one discrepancy in junctioning with the only other contemporary survey, H-9122, which was resolved on the sheet and determined to be due to steep bottom relief.

J. COMPARISON WITH PRIOR SURVEYS

Comparison was made with prior survey No. 2238, scale 1:40,000, 1895. Agreement of soundings was generally good throughout, although the smaller scale of the prior survey does not allow precise comparison.

Investigation was made of the items listed on the Pre-Survey Review, OPR-488, dated 10 February 1970. These are enumerated on the chart of the next page in this report.

Latitude Longitude	Prior Survey Soundings	Pre-Survey Review	Findings of this Survey with Charting Recommdations where Applicable
57° 27.4' 134° 57.5'	N.A. Checks 1971 Ed. of Chart 8283	16 fms	Pre-survey Review Item 7. Verified, but is located about 100 meters south of charted position.
57° 27.7' 134° 57.9'	16 fms	16 fms	16 fathom sounding is incorrect. Depth is 34 fms (using predicted tides).
57° 27.4' 134° 57.9'	Submerged rock	Submerged rock	Verified, 0.2 fms (H.L.) ~~(using predicted tides).~~ Location is about 30 meters east of charted location.
57° 27.7' 135° 02.7'	N.A.	2¼ fms	Pre-survey Review Item 5. Verified, 2.2 fms HL ~~(using predicted tides).~~ Location is about 60 meters east of charted position.
57° 27.6' 135° 03.2'	17 fms	17 fms	Verified. Note rock awash 200 meters northwest of charted 17 fms. depth.
57° 29.5' 135° 07.8'	N.A.	Submerged	Pre-survey review Item 3. Sunken rocks verified as part of submerged reef extending outward from shore; least depth 2.3 fms by HL (using predicted tides). Location is about 120 meters northeast of charted submerged rocks. Note existence of previously uncharted rock awash at Lat. 57° 29.17', Long. 135° 07.20'.
57° 26.8' 135° 08.4'	7.5 fms	7.5 fms	Verified. Note least depth of 2.6 fms HL (using predicted tides) about 200 meters southeast of charted depth of 7.5 fms.

K. COMPARISON WITH THE CHART

Comparison of the survey with USC&GS Chart No. 8283, scale 1:40,000, 5th edition, May 12, 1969, indicates that bottom characteristics have remained generally the same.

Special notice should be made of the following items as dangers to navigation:

Feature	Position	Latitude	Longitude	Depth
Submerged rock	2180	57° 29.17'	135° 07.20'	.2 fms
Rock awash	Photo-identified	57° 27.7'	135° 03.4'	Bare
Submerged rock	2289	57° 25.9'	135° 05.6'	.6 fms

The 16 fathom sounding reported on the Chart 8283 was verified at Latitude 57° 27.4' and Longitude 134° 57.5', position 4055. (See Item J.: Comparison With Prior Surveys - Pre-survey Review Item 7.)

L. ADEQUACY OF THE SURVEY

The survey is considered complete and adequate to supersede the prior survey for charting.

M. AIDS TO NAVIGATION

There were four fixed aids to navigation and one floating aid to navigation in the area of the survey. Point Craven Light, Fairway Island Light, and Morris Reef Buoy are covered in the descriptive report for H-9124 (FA-10-2-70). The positions of McClellan Rock Light and Point Benham Light (as located by travers) were found to be adequate in comparison with existing charted positions. Refer to C & GS Form 567, "Nonfloating Aids or Landmarks for Charts" (contained in this report).

N. STATISTICS

	FAIRWEATHER	FA-3	FA-4	FA-6
Positions	267	408	521	503
Sounding lines (n.m.)	87.9	92.5	101.6	95.7
Bottom samples	10	00	00	00
Area surveyed (sq.n.m.)	10.0	6.0	6.6	6.2
Magnetic stations	04	NA	NA	NA
Current stations	03	NA	NA	NA

Total area surveyed: 28.8 square nautical miles.

O. MISCELLANEOUS

Draft corrections for the ship were not applied to soundings inked on the boat sheet although this was taken into account in drawing depth curves and in examining quality of crossings.

P. RECOMMENDATIONS

None.

Q. REFERENCES TO REPORTS

1. Season's Report, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
2. Magnetics Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
3. Field Edit Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
4. Fathometer Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
5. Coast Pilot Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (To be forwarded).
6. Triangulation Report, OPR-488, USC&GSS FAIRWEATHER, 1970. (Forwarded May, 1970).
7. Evaluation of Ross Fathometer, USC&GSS FAIRWEATHER, 1970. (To be forwarded).

Respectfully submitted,

Wayne A. Hoyle
ENS, USESSA

GEOGRAPHIC NAMES LIST

BARANOF IS.

CATHERINE IS

CHATHAM STRAIT

CHICHAGOF IS

FALSE LINDENBERG HEAD

LINDENBERG HARBOR

LINDENBERG HEAD

PERIL STRAIT

PT BENHAM

PT CRAVEN

PT HANUS

PT KENNEDY

PT THATCHER

SAOOK PT

TODD

TIDE NOTE FOR OPR-488, PERIL STRAIT, ALASKA, 1970

Three tide gages were installed and operated during the survey. These were at Chatham, Nismeni Point, and on the north shore of Peril Strait near False Lindenberg Head. 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.

FORM C&GS-712
(10-67)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

[redacted] Pacific Marine Center

Plane of reference approved [redacted] for Tide Tape Printout

HYDROGRAPHIC SHEET H-9121, 9124, 9127 and 9128

Locality: Peril Strait, Alaska

[redacted] Year 1970

Plane of reference is Mean Lower Low Water

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

Height of Mean High Water above Plane of Reference is as follows: 14.0 ft.

Remarks Tide reducers have been revised in red and verified as follows:

Day	Time
103	1804-1824
143	2031-2126
144	0643

Robert A. Cunningham
Chief, Tides [redacted] Branch

USCOMM-DC 50117-P67

F00

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
COAST AND GEODETIC SURVEY
Rockville, Md. 20852

Date: July 29, 1970

Reply to Attn of: C331W-202-CSS

Subject: Tide Data, OPR-488, Peril Strait, Alaska

To: Commanding Officer
USC&GSS FAIRWEATHER

The information requested in your memorandum follows:

	GHWI	GLWI	Mn	DHQ	DLQ	(Marigram) MLLW
Chatham	9.72	3.52	12.0	0.9	1.6	6.5
Nismemi Point	9.79	3.68	11.8	0.9	1.6	5.6
Peril Strait	9.75	4.01	12.4	1.0	1.6	6.0

Zoning should be applied at your discretion. It is suggested that the Chatham gage could be used in Sitkoh Bay and the entrance to Peril Strait, the Nismeni Point gage over to Povorotni Island, and the Peril Strait gage for the remainder of this area.

J. M. Symons

J. M. Symons
Chief, Tides & Currents Branch
Oceanography Division

H-9121

Use Peril Strait gage.
May have to augment with Nismeni records for April 30 and May 8.
(No range or time corrections)

U.S. DEPARTMENT OF COMMERCE
Environmental Science Services Administration
COAST AND GEODETIC SURVEY
Rockville, Md. 20852

Date: August 26, 1970

Reply to Attn of: C331W-229-MCFOE

Subject: Tidal Data, Peril Strait, Alaska

To: Chief, Processing Division
Pacific Marine Center

There are listed below the tidal data requested in your memorandum of July 7, 1970, File No. CFS3.

Location	MLLW on Marigram	Mn. Range	H.W. Interval	L.W. Interval
Chatham, Sitkoh Bay	6.5 Ft.	12.0 Ft.	9.72	3.52
Lindenberg Head, Peril Strait	6.0 Ft.	12.3 Ft.	9.75	4.01
Nismeni Point, Peril Strait	5.6 Ft.	12.5 Ft.	9.70	3.54

Listed below are the areas to be controlled by each tide gage.

Sitkoh Bay, use the Chatham tide gage.
Peril Strait, between Pt. Thatcher or Pt. Craven and Appleton Cove, use the Lindenberg Head tide gage.
Peril Strait, between Appleton Cove and Nismeni Point, use Nismeni Point tide gage.

L. C. Wharton
Tides & Currents Branch
Oceanography Division

H-9123 = Chatham Gage

H-9121, H-9124, H-9127, H-9128 = Peril Strait Gage (Lindenberg Head)

H-9122, H-9125, H-9126 = Nismeni Point Gage

Peril Strait Gage inoperative on April 30, May 6, 7, 8
Use Nismeni Point Gage.

DAY 120V
~~125~~
127 } no hydro these
128 } days

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122400 00 1003
123600 00 1004
124800 00 1005
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142300 00 1013
143600 00 1014
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152300 00 1017
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142400 00 1008
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155400 00 1012
160600 00 1013
161800 00 1014
163200 00 1015
164700 00 1016
170300 00 1017
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LIST OF STATIONS ON H-9121 (FA-20-1-70)

Name used in Hydrographic Survey	Latitude (° ' ")	Longitude (° ' ")	Origin of Station
101	57 31 5081	135 12 5907	CROW 1966
102	57 29 0026	135 11 4525	PT. BENHAM LT. 1970
130	57 27 5676	135 05 1290	FIB 2, 1970
131	57 28 2108	135 06 0384	DRY 2, 1970
132	57 30 2505	135 09 2612	HURT 2, 1970
133	57 27 1199	135 01 3172	McCLELLAN ROCK LIGHT, 1970
160	57 27 3546	134 55 5410	OF 2, 1970
161	57 27 3042	134 58 2657	HYDROGRAPHIC
280	57 27 4603	135 09 3569	JOY 2, 1970
293	57 26 4235	135 09 1972	T-13327
294	57 26 3317	135 08 4400	"
338	57 28 3714	134 49 3714	QUEEN 1894-1925
339	57 27 4946	134 51 5399	PT. CRAVEN LT. 1970
343	57 27 3724	134 53 4073	GO, 1895-1970
346	57 25 3281	134 58 5537	IS 2, 1960
347	57 25 1872	135 03 3715	NAP 2, 1960
371	57 25 0048	134 49 4948	THATCHER 2, RM 2, 1925
372	57 26 3533	134 52 1193	FAIRWAY ISLAND LIGHT, 1970
373	57 26 0314	134 56 0216	KIT 2, 1960
324	57 28 2237	134 52 1800	T-13329
330	57 28 3407	134 50 3150	"
331	57 28 5230	134 49 5785	"
332	57 29 1099	134 50 0168	"
337	57 29 5334	134 49 3999	"
374	57 26 2489	134 52 1055	"
376	57 25 5043	134 52 0000	T-13331
378	57 24 5120	134 51 4127	"
379	57 24 5269	134 50 4451	"
380	57 26 0679	134 50 4309	"
396	57 24 5389	134 49 4996	"
397	57 24 4364	134 49 5445	"
398	57 24 3475	134 49 5990	"
400	57 24 2851	134 49 5977	"
134	57 29 1299	135 06 5138	Hydrographic

TRIANGULATION PLOTTER CARDS

H-NO.			LATITUDE	LONGITUDE	X	Y	
09121	101	70	57315081	135125907	00143	09443	101
09121	102	70	57290026	135114525	00780	06671	102
09121	130	70	57275676	135051290	04211	05633	130
09121	131	70	57282108	135060384	03766	06028	131
09121	132	70	57302505	135092612	02000	08045	132
09121	133	70	57271199	135013172	06146	04905	133
09121	160	70	57273546	134555410	09101	05286	160
09121	161	70	57273042	134582657	07767	05204	161
09121	280	70	57274603	135093569	01911	05463	280
09121	293	70	57264235	135091972	02048	04429	293
09121	294	70	57263317	135084400	02360	04279	294
09121	338	70	57283714	134493714	12398	06294	338
09121	339	70	57274946	134515399	11202	05517	339
09121	343	70	57273724	134534073	10268	05316	343
09121	346	70	57253281	134585537	07515	03294	346
09121	347	70	57251872	135033715	05046	03066	347
09121	371	70	57250048	134494948	12299	02775	371
09121	372	70	57263533	134521193	11047	04313	372
09121	373	70	57260314	134560216	09032	03787	373
09121	324	70	57282237	134521800	10991	06051	324
09121	330	70	57283407	134503150	11922	06243	330
09121	331	70	57285230	134495785	12216	06540	331
09121	332	70	57291099	134500168	12182	06843	332
09121	337	70	57295334	134493999	12370	07532	337
09121	374	70	57262489	134521055	11060	04143	374
09121	376	70	57255043	134520000	11153	03584	376
09121	378	70	57245120	134514127	11319	02622	378
09121	379	70	57245269	134504451	11817	02647	379
09121	380	70	57260679	134504309	11826	03851	380
09121	396	70	57245389	134494996	12295	02668	396
09121	397	70	57244364	134495445	12256	02502	397
09121	398	70	57243475	134495990	12208	02357	398
09121	400	70	57242851	134495977	12210	02256	400
09121	134	70	57291299	135065138	03351	06872	134

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USC&GSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

VELOCITY CORRECTIONS
Peril Strait - 1970

Corrections to be applied to the following sheet numbers:

FA-10-1-70
FA-10-2-70
FA-10-3-70
FA-10-4-70
FA-10-5-70
FA-10-6-70

FA-20-1-70
FA-20-2-70

Applicable Depths (fms)	Corrections (fms)
0 - 65	0.0
65 - 100	+0.1
100 - 120	+0.2
120 - 140	+0.4
140 - —	+0.5

USC&GSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

DRAFT CORRECTIONS
Peril Strait - 1970

Ship FAIRWEATHER Sheet Number	Date	Corrections (fms)
FA-20-1-70	4-25	+2.3
	4-26	+2.3
	4-27	+2.3
	5-08	+2.3
	5-09	+2.3
FA-20-2-70	4-27	+2.3
	4-30	+2.3
	5-10	+2.3

USC&GSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS
Peril Strait - 1970

Launch FA-3 Sheet Number	Date	Correction (fms)
FA-10-1-70	4-15	+0.2
	4-16	+0.2
	4-22	No bar check
FA-10-2-70	5-19	+0.2
	5-25	No bar check
	5-26	+0.2
FA-10-4-70	5-11	+0.0
	5-12	+0.4
FA-10-6-70	5-24	+0.2
FA-20-1-70	5-20	+0.2
	5-21	+0.2
	5-22	+0.3
	5-23	+0.3
FA-20-2-70	5-07	No bar check
	5-08	+0.2
	5-21	+0.2
	5-22	+0.2

USC&GSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS
Peril Strait - 1970

Launch FA-4 Sheet Number	Date	Correction (fms)
FA-10-1-70	4-12	+0.4
	4-13	+0.5
	4-14	+0.5
	4-16	+0.3
	4-17	+0.4
	4-21	No bar check
	4-25	+0.3
FA-10-2-70	5-25	+0.3
	5-26	+0.3
FA-10-3-70	5-06	No bar check
	5-07	+0.3
	5-08	+0.3
	5-09	+0.3
	5-10	+0.3
	5-11	+0.3
	5-21	+0.3
FA-10-5-70	5-12	+0.3
FA-10-6-70	5-22	No bar check
FA-20-1-7	4-27	+0.3
	4-28	+0.3
	5-13	No bar check
	5-20	+0.3
	5-22	No bar check
	5-23	+0.3
	5-25	No bar check

USC&GSS FAIRWEATHER

MSS 20

CAPT. John B. Watkins, Jr. Commanding

ECHO CORRECTIONS
Peril Strait - 1970

Launch FA-6 Sheet Number	Date	Correction (fms)
FA-10-2-70	4-28	+0.5
	5-20	+0.1
	5-22	+0.2
	5-23	+0.2
	5-24	No bar check
FA-10-4-70	5-21	+0.3
FA-10-5-70	5-13	+0.3
	5-14	No bar check
FA-10-6-70	5-25	No bar check
	5-26	+0.2
FA-20-1-70	4-26	+0.2
	4-29	+0.4
	4-30	No bar check
	5-19	+0.3
FA-20-2-70	5-06	No bar check
	5-09	No bar check
	5-10	+0.3
	5-11	No bar check
	5-12	+0.2

INITIAL CHECK CORRECTIONS
Peril Strait - 1970

Sheet Number	Positions	Corrections (fms)
FA-10-5-70	6001-6014	-0.1
FA-10-6-70	2068-2074	+0.3
	8072-8080	-0.1
	8081-8089	-0.2
FA-20-1-70	0089-0090	-0.1
	0091-0127	-0.2
FA-20-2-70	2183-2206	-0.1

FORM 567

U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

NONFLOATING AIDS OR LANDMARKS FOR CHARTS

~~TO BE CHARTED~~
TO BE REVISED
~~TO BE DELETED~~
} STRIKE OUT TWO

PERIL STRAIT, ALASKA — MAY, 19 7

I recommend that the following objects which have ~~(have not)~~ been inspected from seaward to determine their value as landmarks be charted on ~~(deleted from)~~ the charts indicated.

The positions given have been checked after listing by John J. Lenart LTJG/USESSA

Chief of Party.

DATE CHARTING NAME	DESCRIPTION	SIGNAL NAME	POSITION LATITUDE* ° ′	LATITUDE* ″ D.M. METERS	LONGITUDE* ° ′	LONGITUDE* ″ D.P. METERS	DATUM	METHOD OF LOCATION AND SURVEY No.	DATE OF LOCATION	HARBOR CHART	INSHORE CHART	OFFSHORE CHART	CHARTS AFFECTED
MCLELLAN LIGHT	Fl. W., 6s (1s fl) WITH DAYBEACON	McCLELLAN Rock LIGHT	57 - 27	11.978 0371	135 - 01	31.746 0529	N.A. 1927	TRAVERSE	1970		✓		8283
BENHAM	Fl. W., 4s WITH DAYBEACON	PT. BENHAM LIGHT	57 - 29	00.253 0008	135 - 11	45.228 0754	N.A. 1927	TRAVERSE	1970		✓		8283

This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charts landmarks and *nonfloating aids* to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. The data should be considered for the charts of the area and not by individual field survey sheets. Information under each column heading should be given.

TABULATE SECONDS AND METERS

USCOMM-DC 16234-

TRANSMITTAL SHEET

H-9121 FA-20-1-70

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

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

FORM # 1

FIG. 15

PARAMETERS FOR DIGITAL COMPUTING
POLYCONIC PROJECTION

(1) PROJECT NO. 48 2020 (4) REQUESTED BY FAIRWEATHER

(2) H NO. 9121 (5) SHIP OR OFFICE Fairweather

(3) FIELD NO. B-1 (6) DATE REQUIRED ASAP

(7) VISUAL ☑ (8) ELECTRONIC ☐ (FILL OUT FORM #3)

(10) XKN (SP 5) DISTANCE FROM CMER TO EAST EDGE (NYX = 1) OR WEST EDGE (NYX = 0). 488 13,237.5 METERS

(11) YKN (SP 241) DISTANCE FROM EQUATOR TO SOUTH EDGE OF SHEET. 6,360,845 METERS

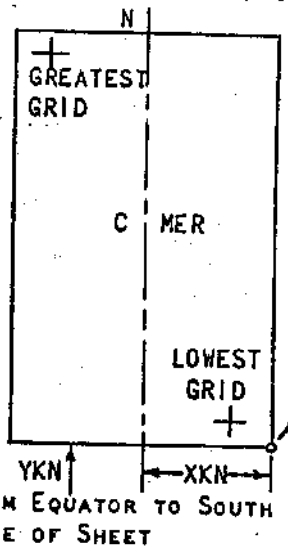
(12) CENTRAL MERIDIAN 135 ° 00 ' 00 "

(13) SURVEY SCALE 1:20,000

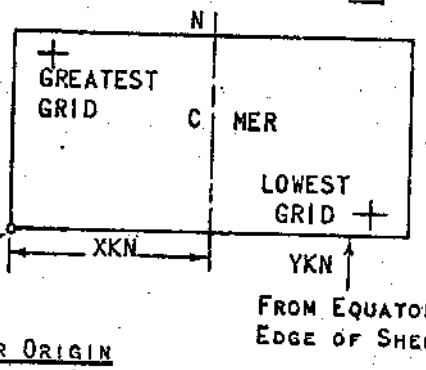
(14) SIZE OF SHEET (CHECK ONE) 36x54 ☑ 42x60 ☐ OTHER ____ ☐

(15) NYX, ORIENTATION OF SHEET (CHECK ONE)

NYX = 1 ☒ NOT CHECKED



NYX = 0 ☑



(9) PLOTTER ORIGIN (CORNER OF SHEET)

LATITUDE 57 ° 22 ' 10 "
LONGITUDE 135 ° 13 ' 12 "

GRID LIMITS

LIST G.P. OF ALL STATIONS TO BE PLOTTED ON THIS PROJECTION ON THE BACK OF THIS FORM. (DEG., MIN., SEC.)

(16) GREATEST LATITUDE 57 ° 32 ' 00 "
(17) LOWEST LATITUDE 57 ° 23 ' 00 "
(18) DIFFERENCE 0 ° 9 ' 00 "
(19) 1 ' 00 "
(20) 9 YSN

(PROJECTION LINE INTERVAL, PAGE 4 HYDRO MANUAL)

(21) GREATEST LONGITUDE 135 ° 13 ' 00 "
(22) LOWEST LONGITUDE 134 ° 46 ' 00 "
(23) DIFFERENCE 0 ° 27 ' 00 "
(24) 1 ' 00 "
(25) 27 XSN

Top row of Grid ticks fell off sheet.

H

Field No. CPR 468 B-1

Date 2/6/70

~~HYPO II AND III PARAMETER CARDS~~

20020

PARAMETER CARD II

			1	2	3	4	5	6	7	8	9	10
Semi major axis of the earth	6,378,206.4	RDA	6	3	7	8	2	0	6	4	0	7
X Constant - Distance from central meridian to origin of plotter SP 5	meters	YYN	11 / 1	12 / 3	13 / 2	14 / 3	15 / 7	16 / 4	17 / 8	18 / 8	19 / 0	20 / 5
Y Constant - Distance from equator to origin of plotter SP 241	meters	YXN	21 / 6	22 / 3	23 / 6	24 / 0	25 / 8	26 / 4	27 / 4	28 / 5	29 / 0	30 / 7
Central Meridian of Projection	135	CMR	31 / 4	32 / 8	33 / 6	34 / 0	35 / 0	36 / 0	37 / 0	38 / 0	39 / 0	40 / 6
Plotter Scale/Survey Scale	10498.6876 1: 20000	SCA	41 / 5	42 / 2	43 / 4	44 / 9	45 / 3	46 / 4	47 / 3	48 / 8	49 / 0	50 / 0
North/south axis of sheet - to correspond to (Y axis - 0) (X axis - 1) of plotter		KYX										51 / 0
Feet/Fathom indicator	0 - feet 1 - fathom	FOF										52 / 1
H Identification No.		JN									53 / 2	54 / 0	55 / 0	56 / 2	57 / 0
		YR												58 / 7	59 / 0

FOF - 1

PARAMETER CARD III

			1	2	3	4	5	6	7	8	9	10
Lowest Lat. Intersection	57 2300	YST	2	0	6	5	8	0	0	0	0	6
Lowest Long. Intersection	134 4600	ZST	11 / 4	12 / 8	13 / 5	14 / 1	15 / 6	16 / 0	17 / 0	18 / 0	19 / 0	20 / 6
Difference between Grid	01	DXY	21 / 6	22 / 0	23 / 0	24 / 0	25 / 0	26 / 0	27 / 0	28 / 0	29 / 0	30 / 2
Interval (Long)		ISN									31 / 2	32 / 7
Interval (Lat)		YSN									33 / 0	34 / 9

Computed SER

Punched

Checked

Date

FORM 197
(3-16-55)

GEOGRAPHIC NAMES

Survey No. H-9121

Name on Survey	On Chart No. A	On previous survey No. B	On U. S. quadrangle Maps C	From local information D	On local Maps E	P. O. Guide or Map F	Rand McNally Atlas G	U. S. Light List H	K	
Baranof Island										1
Catherine Island										2
Chatham Strait										3
Chichagof Island										4
False Lindenberg Head										5
Lindenberg Harbor										6
Lindenberg Head										7
Peril Strait										8
Pt. Benham										9
Pt. Craven										10
Pt. Hanus										11
Pt. Kennedy										12
Pt. Moses										13
Pt. Thatcher										14
Saook Pt.										15
										16
			Names checked.							17
			C. E. Harrington, Cartographer							18
			5-25-73							19
										20
			Names approved							21
			A. J. Wright, Chief Geographer							22
			5-25-73							23
										24
										25
										26
										27

FORM C&GS-946
(REV. 11-66)
(PRESC. BY HYDROGRAPHIC MANUAL 20-2, 6-94, 7-13)

U.S. DEPARTMENT OF COMMERCE
ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION
COAST AND GEODETIC SURVEY
NAUTICAL CHART DIVISION

HYDROGRAPHIC SURVEY STATISTICS

HYDROGRAPHIC SURVEY NO. H-9121

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

RECORD DESCRIPTION	AMOUNT	RECORD DESCRIPTION	AMOUNT
SMOOTH SHEET & PNO	1	BOAT SHEETS	1
DESCRIPTIVE REPORT	1	OVERLAYS	3

DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES			2 env.			
CAHIERS	1					
VOLUMES	7					
BOXES			1			

T-SHEET PRINTS *(List)*

SPECIAL REPORTS *(List)*

OPR 488 1970 Fathometer Report

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				1688
POSITIONS CHECKED		1688		
POSITIONS REVISED		88		
DEPTH SOUNDINGS REVISED		395		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		0		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		19		
JUNCTIONS		10		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		16		
SPECIAL ADJUSTMENTS		2		
ALL OTHER WORK		442		
TOTALS		489		

PRE-VERIFICATION BY	BEGINNING DATE	ENDING DATE
VERIFICATION BY A.E. Eichelberger	BEGINNING DATE 12/29/70	ENDING DATE 3/6/73
REVIEW BY	BEGINNING DATE	ENDING DATE

USCOMM-DC 36271-P65

FORM C&GS-946A
(REV. 11-65)
(PRES. BY HYDROGRAPHIC MANUAL, 6-94)

U.S. DEPARTMENT OF COMMERCE
ESSA
COAST AND GEODETIC SURVEY

VERIFIER'S REPORT

HYDROGRAPHIC SURVEY, H 9121

INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed in the Descriptive Report until the survey is reviewed.

CL - Check List Items: should be checked as having been completed during the verification processes.

R - Report Item: This column refers to those items reported to the reviewer and is used to indicate the items discussed.

Part I - DESCRIPTIVE REPORT	CL	R
Note: The verifier should first read the Descriptive Report for general information and problems.		
1. The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: -- None	X	
2. Soundings originating with the survey and mentioned in the Descriptive Report have been verified and checked in soft black pencil, including latitude and longitude, together with position identification. Remarks Required: -- None	X	
3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None	X	
Part II - SHORELINE AND SIGNALS		
4. Source of shoreline signals Remarks Required: -- List all surveys		X
a. Give earliest and latest dates of photographs		
b. Field inspection date		
c. Field Edit date		
d. Reviewed-Unreviewed		
5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.		X
6. The plotting of all triangulation stations, topographic stations and hydrographic signals has been checked and noted in processing stamp No. 42 on the smooth sheet. Remarks Required: -- None	X	
7. Objects on which signals are located and which fall outside of the high-water line have been described on the sheet. Remarks Required: -- List those signals still unidentified.		X
Part III - JUNCTIONS		
Note: Make a cursory comparison preliminary to inking soundings in area of overlap.	X	
8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None		
9. The notation in slanted lettering "JOINS H---- (19)" was added in colored ink for all verified contemporary adjoining or overlapping sheets. Those not verified are shown in pencil. Remarks Required: -- None	X	

Part III - JUNCTIONS (Continued)	CL	R
10. Junctions with contemporary surveys were satisfactory except as follows: Remarks Required: -- Consider conditions after adjustments have been made; note adjustments made. Make special notes of **Butt** junctions and areas which are **SUPERSEDED.**		X
Part IV - VOLUMES		
11. All items affecting the plotting of the survey which are entered in the remarks columns of the sounding records were noted and check marked. In all cases appropriate action was taken and exceptions noted in the volumes. Remarks Required: -- None	X	
12. Condition of sounding records was satisfactory except as follows: Remarks Required: -- Mention deficiencies in completeness of notes or actions for the following:		
(a) rocks	X	
(b) line turns	X	
(c) position values of beginning and ending of lines	X	
(d) bar check or velocity correctors	X	
(e) time recording	X	
(f) notes or markings on fathograms	X	
(g) was reduction of soundings accurately done ?	X	
(h) was scanning accurate?	X	
(i) were peaks at uneven intervals missed?		X
(j) were stamps completed?	X	
(k) references to adjacent features	X	
Part V - PROTRACTING		
13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None	X	
14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None	X	
15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None	X	

USCOMM-DC 36272-P65

Part V - PROTRACTING (Continued)	CL	R
16. The protracting was satisfactory except as follows: Remarks Required: -- Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.	X	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	X	
Part VI - SOUNDINGS		
18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	X	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	X	
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	X	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	X	
22. The smooth plotting of soundings was satisfactory except as follows: Remarks Required: — Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.	X	
Part VII - CURVES		
3. The depth curves have been inspected **before** inking. Remarks Required: -- By whom was the penciled curves inspected.		X
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following: a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange d. Approximate position of shoal area **not sounded** in black dashed Remarks Required: -- None	X X	
25. Depth curves were satisfactory except as follows: (This statement should not refer to the manner in which the curves were drawn). Remarks Required: -- Indicate areas where curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.		X

Part VIII - AIDS TO NAVIGATION	CL	R
26. All fixed aids located together with those on the contemporary topographic sheets, have been shown on the survey. Remarks Required: -- Conflicts of any nature listed.	X	
27. All floating aids listed in the Descriptive Report should be verified and checked in soft black pencil, including latitude and longitude and position identification. Remarks Required: -- None	X	
Part IX - BOAT SHEET		
28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and supplemental information. Remarks Required: -- None	X	
29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.		X
Part X - GENERAL		
30. All information on the sheet is shown in accordance with figures 82 and 83 in the Hydrographic Manual (Pub. 20-2). Remarks Required: -- None	X	
31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	X	
32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet. Remarks Required: — None	X	
33. The bottom characteristics are adequately shown. Remarks Required: -- None	X	
Part XI - NOTES TO THE REVIEWER		
34. Unresolved discrepancies and questionable soundings.		X
35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	X	
36. Supplemental information.	X	

Verified by	Date
A.E. Eichelberger	3/6/73

VERIFIER'S REPORT

FA-2Ø-1-7Ø H-9121

All records have been examined.

All positions have been checked, soundings corrected and plotted.

All data received has been checked.

PART II SHORELINE AND SIGNALS

4. The Shoreline was transferred from advance manuscripts T-11940, T-11941 and T-11942. Field edit was made in May 197Ø from photos flown in June 1967. Field edit was applied in August 197Ø.

5. A small offshore reef shown on manuscript T-11942 at Lat 57°24.8' Long 134°49.7' was not verified by hydrography. The least depth obtained by the launch passing over the reef was 2 fms on sndg no 448905. This reef was not inked on the Smooth Sheet.

7. The following signals, 294, 374 and 38Ø, are located outside the high-water line on ledges and offshore reefs.

PART III JUNCTIONS

1Ø. Junctions were made with verified surveys H-9122, H-9123, H-9127 and H-9128 (all 197Ø, scale 1:1Ø,ØØØ) with good agreement. Some difficulty was encountered with H-9124 (197Ø, scale 1:1Ø,ØØØ) in the junction area at the extreme east edge of this survey between Lat 57°27' and Lat 57°29'. Soundings plotted on this survey in this location were obtained by the Ross Fathometer which was not designed to operate at such depths. (See Part XI item 34, this report) The steep bottom relief also contributed to adjustment of the depth curves between the junction soundings. One shoal area was developed on H-9124 with lesser depths than were obtained on this survey at Lat 57°25.5' Long 134°49.5'. A least depth of 3.3 fms, with a 3.8 fm sounding nearby were located on H-9124. No effort was made to develop this area on this survey, and the least depths were missed by one line of hydrography, positions 43Ø2ØØ-43Ø3ØØ. It is suggested that soundings from H-9124 be utilized for more concise depth curves at this location.

PART IV VOLUMES

12. Additional soundings were inserted during verification, where space permitted, to aid in the drawing of depth curves. Peaks and deeps occuring at odd intervals were not added by the scanner for hydrography accomplished by the Ship FAIRWEATHER, positions ØØØ1ØØ-Ø267ØØ.

PART VII CURVES

23. The penciled depth curves were inspected and adjusted prior to inking by R. D. Lynn, Carto. Tech.

25. The depth curves are complete except for delineation of the low-water line.

PART IX BOATSHEET

29. The following discrepancy exists in the elevation of a rock transferred from advance manuscript T-11941:

Latitude	Longitude	T-11941	H-9121	Pos.
57°25.9'	135°05.6'	awash	cov. .6 fm.	228900

A rock awash symbol and data from the manuscript was inked on the smooth sheet.

PART XI NOTES TO THE REVIEWER

34. The digital readout of the Ross Fathometer used on Launch #4 is from .4 fm to 1.0 fm deeper than graphic trace on the analog. This factor was taken into account when adding additional soundings to the original readout. Comparisons were made with adjacent soundings to scale compatable peaks and deeps. This discrepancy increases with the depth. At 150 fms and deeper, the analog is almost impossible to scan manually. The digital readout was erroneous in many of the deeper soundings, and was corrected by the scanner aboard ship. Some of these graphically scaled soundings are doubtful to their accuracy. In common areas, the soundings obtained by the Ross Fathometer are consistently deeper than those scaled from the fathograms of the DE-723 employed by the ship and launch #6.

COMPARISON WITH CHART

Comparison with C&GS Chart 8283 (6th Ed, July 1971) indicates general agreement with the following notable exceptions:

Latitude	Longitude	8283	H-9121
57°28.7'	135°06.7'	4 fm	5.5 fm
57°26.3'	135°07.1'	8 fm	9.4 fm
57°25.8'	135°05.0'	4 fm	2.9 fm
57°25.6'	135°04.4'	1.5 fm	2 fm
57°26.0'	135°06.0'	6 fm	4.4 fm
57°27.5'	134°57.4'	16 fm	40+ fm
57°27.4'	134°57.6'	81 fm	30 fm
57°27.5'	134°56.9'	82 fm	66 fm
57°27.5'	134°54.5'	148 fm	88 fm
57°25.7'	134°49.8'	19 fm	14 fm

Latitude	Longitude	8283	H-9121
57°25.1'	134°49.7'	Subm Rk	No indication
57°25.5'	134°49.5'	2.7 (rk)	Developed on H-9124

This survey is considered adequate to supersede prior surveys of the area.

Respectfully submitted,

A. E. Eichelberger

A. E. Eichelberger
Carto. Tech.

APPROVAL SHEET

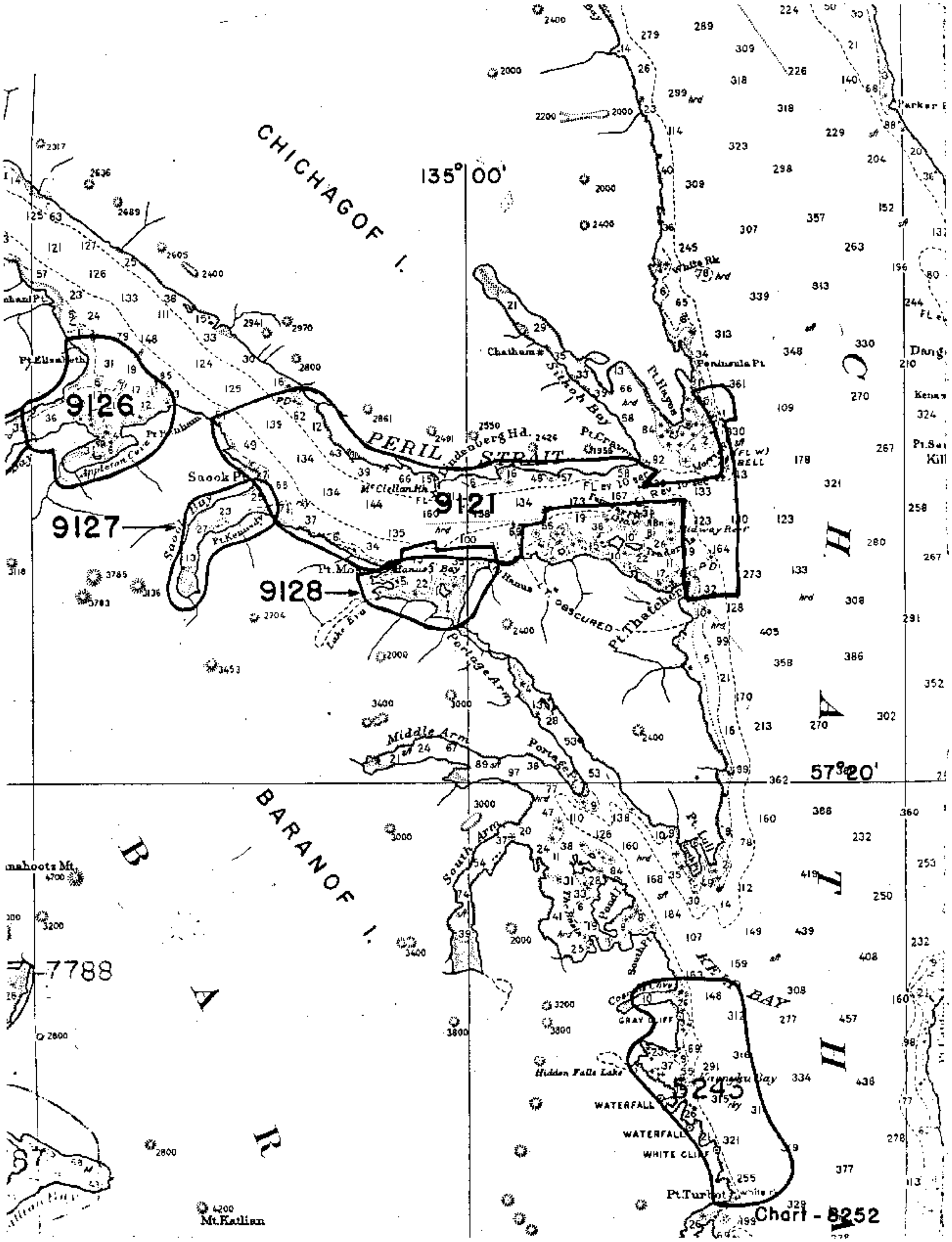
The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report)

Examined and approved,

Cornelius A. J. Pauw
Supervisory Cartographic Tech.

Approved and forwarded,

Walter F. Forster, LCDR, NOAA
Chief, Processing Division
Pacific Marine Center


CHICHAGOF I.
BARANOF I.
135° 00'
57° 20'
PERIL STRAIT
9126
9127
9128
9121
5243
7788
Chart - 8252
Pt. Elizabeth
Appleton Cove
Saook Pt.
Saook Bay
Pt. Kennedy
McClellan Rk.
Lindenberg Hd.
Chatham
Sitkoh Bay
Pt. Hayes
Peninsula Pt.
White Rk.
Pt. Thatcher
Hanus Bay
Lake Eva
OBSCURED
Portage Arm
Middle Arm
Portage Pt.
South Arm
The Basin
Pond
South Pt.
Pt. Lull
KELP BAY
GRAY CLIFF
Hidden Falls Lake
WATERFALL
WHITE CLIFF
Pt. Turbot
Mt. Katlian
Parker
Danger
C
H
A
T
H
B
A
R

RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9121

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.

CHART	DATE	CARTOGRAPHER	REMARKS
8283	4/20/73	E Frey	~~Full~~ Part Before ~~After Verification~~ Review Inspection Signed Via
			Drawing No. Partly revised hydro - critical corr's only
8252	4/21/73	E. Frey	~~Full~~ Part Before ~~After Verification~~ Review Inspection Signed Via
			Drawing No. Partly revised hydro via cht 8283
8283	2/16/77	Naitok	Full ~~Part Before~~ After Verification Review ~~Inspection Signed~~ Via
			Drawing No. Consider fully appld as class 6 survey
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
			Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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