

# 9215

9215

Diag. Cht. No. 8201-3.

Form 504	
U. S. COAST AND GEODETIC SURVEY DEPARTMENT OF COMMERCE	
DESCRIPTIVE REPORT	
Type of Survey	HYDROGRAPHIC
Field No.	DA-10-3-71
Office No.	H-9215
LOCALITY	
State	ALASKA
General locality	SOUTHEAST ALASKA
Locality	SUMNER STRAIT
<del>XK94</del> 1971	
CHIEF OF PARTY	
CDR. RAY E. MOSES	
LIBRARY & ARCHIVES	
DATE	JUN 22 1973

B-1870-1 (1)

*Charts*  
8168  
8174  
8201

HYDROGRAPHIC TITLE SHEET

H-9215

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.

DA-10-3-71

State ALASKA

General locality Southeast Alaska

Locality Summer Strait - Buster Bay

Scale 1:10,000 Date of survey 6 May - 7 June, 1971

Instructions dated 2 February, 1971 Project No. OPR-448

Vessel Launch DA-1, Launch DA-2, NOAA Ship DAVIDSON

Chief of party CDR Ray E. Moses

Surveyed by W.K. Taguchi, H.W. Herz, G.L. Miller, R.C. Arnold, S.A. Young  
CST A. Luceno

Soundings taken by echo sounder, hand echosounder

Graphic record scaled by Ship's Personnel

Graphic record checked by Ship's Commissioned Officers  
Positions verified

~~positions~~ verified by John E. Lotshaw Automated plot by PMC-EDP Branch

Soundings ~~checked~~ by John E. Lotshaw

Soundings in fathoms feet at MHW MLLW

REMARKS:

*Cont. 1*

*Applied to sheets 7/5/73*

*8201*

*8168*

*8174*

DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-9215 (DA-10-3-71)  
Buster Bay

OPR-448

Southeast Alaska

Scale 1:10,000

NOAA Ship DAVIDSON

Ray E. Moses  
CDR NOAA  
Commanding Officer  
NOAA Ship DAVIDSON

A. PROJECT

This survey was accomplished according to Project Instructions: OPR-448-DA-71, Keku Strait and Sumner Strait, S.E. Alaska dated 2 February 1971.

B. AREA SURVEYED

The area surveyed covers the south shore of Sumner Strait east of Point Baker to just west of the mouth of Red Bay. The survey limit to the west is 133° 34' 00"W where the sheet junctions with H-8149.

The survey limit to the east is 133° 20' 30"W where the sheet junctions with contemporary survey DA-10-4-71 (H-9216). The hydrography extends out to approximately the 120 fathom curve where the sheet junctions with DA-20-1-71 (H-9223). with Junction Surveys not assigned 1/19/73

Work on the sheet was accomplished between 6 May and 7 June 1971.

C. SOUNDING VESSEL

The following vessels were used to obtain soundings on this survey:

<u>VESSEL</u>	<u>POSITION NUMBER</u>	<u>COLOR</u>
Launch DA-1		Blue
Launch DA-2		Red
Ship DAVIDSON		Brown

Bottom samples were taken with Launch DA-1, Launch DA-2 and the Ship DAVIDSON. Detached positions are shown with brown numbers. Bottom sample positions are shown with violet numbers, bottom samples with violet circles for DA-2 and brown circles for the Ship DAVIDSON. An abstract of each vessel's work by position numbers is attached.

D. SOUNDING EQUIPMENT

Raytheon DE-723 fathometers were used:

Launch DA-1	#553
Launch DA-2	#919
Ship DAVIDSON	#1284

Echo sounder corrections were determined from bar checks taken at least once daily by the launches. Fathometers were initialed at zero and require draft corrections for their soundings

Phase corrections were determined by using a digital phase checker to test the fathometers. Corrections to echo soundings can be found in a separate report titled "Corrections to Echo Sounders OPR-448-Sumner Strait-1971. All soundings were taken in fathoms.

#### E. SMOOTH SHEET

The smooth sheet will be constructed and plotted by the Processing Division, Pacific Marine Center, Seattle, Washington.

#### F. CONTROL

Visual three-point fixes were used for control in this survey. There were three types of visual signals used: triangulation, photogrammetric and hydrographic. Existing second order triangulation stations were used. Photogrammetric signals were located by radial plots from office photos. The triangulation stations were computer plotted and verified by ship's personnel. The photo signals were plotted by the ship's commissioned officers. Hydrographic signals were located by sextant cuts and were plotted by the ship's commissioned officers.

#### G. SHORELINE

The shoreline was traced from the following manuscripts:

T-12467'                      T-12468'                      T-12469'

Verification of the shoreline was carried out by the ship's commissioned officers and is covered in a separate report titled "Field Edit Report, Sumner Strait-Southeast Alaska OPR-448-1971

#### H. CROSSLINES

The percentage of crosslines run was 9.2% (23.00 miles). There is good agreement at crossings.

#### I. JUNCTIONS

Junction was made with contemporary survey H-8149. Soundings were compared at the junction and found to agree.

#### J. COMPARISON WITH PRIOR SURVEYS

No prior surveys were available. Comparisons should be made during processing.

#### K. COMPARISON WITH THE CHART

Comparison of soundings with C&GS chart 8201, 15th edition, 15 November 1969 was made. Due to the small scale of the chart, comparison was very difficult. The few soundings in the area were transferred from the chart to the boatsheet and are shown in green. There is general agreement with the chart.

#### L. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supercede prior surveys.

#### M. AIDS TO NAVIGATION

There are no aids to navigation in the area covered by this survey.

#### N. STATISTICS

<u>VESSEL</u>	<u>NUMBER OF POSITIONS</u>	<u>SOUNDING LINES (NM)</u>	<u>BOTTOM SAMPLES</u>	<u>DETACHED POSITIONS</u>	
Launch DA-1	823✓	95.85✓	12✓	7✓	842
Launch DA-2	1357✓	152.70✓	2✓	33✓	1390 2132
Ship DAVIDSON	0	0	22	0	

The total area surveyed is 6✓ square miles. Automatic loggers were used for underway logging. As a result, both sounding volumes and original printouts constitute the "original records" of the survey. There are 16 volumes/printouts with this survey.

#### O. MISCELLANEOUS

One tide gage was installed and maintained at Point Baker (Lat. 56° 21.2'N, Long. 133° 37.2'W) for reduction of soundings on the smooth plot. Soundings on the boatsheet are reduced to MLLW with predicted tides for Red Bay, Sumner Strait, Alaska. Time meridian 105°W was used for the entire survey. Further information can be found in the attached "tide note."

Detached positions, minus soundings and zero soundings were all logged as 0000 in the sounding column of the data tapes. The verifier should therefore refer to the original sounding volumes/printouts for all 0000 soundings to determine what they represent.

Three overlay developments are included with the boatsheet. Soundings were inked on the overlay development sheets, rather than on the boatsheet in the developed areas.

P. RECOMMENDATIONS

There are no recommendations for this survey.

Q. REFERENCES TO REPORTS

Corrections to Echo Sounders OPR-448-1971  
Field Edit Report OPR-448-1971  
Report on Geographic Names OPR-448-1971

Respectfully submitted,

*Howard W. Herz*

Howard W. Herz  
LTJG. NOAA

Attachments:

Tide Note  
Form 1  
Abstract of Positions  
Development overlay No. 1  
Development overlay No. 2  
Development overlay No. 3  
List of Stations  
Approval Sheet

GEOGRAPHIC NAMES LIST

BUSTER BAY

BUSTER CREEK

CAMP CREEK

PRINCE OF WALES ISLAND

SHINE CREEK

STRAIT CREEK

SUMNER STRAIT



TIDE NOTE

The tide station for this survey was located at Point Baker boat dock.

Location:	Lat. 56° 21.2'N Long. 133° 37.2'W
Time Meridian	105°W
Plane of Reference	MLLW
Type of Gage	Portable Bubbler

The tide height data were corrected for differences in the time and height.

Hourly height tapes, printouts, copies of Form 362 and a field party tide note have been transmitted to the Pacific Marine Center.

Tide Station Reports, Leveling Records, Marigrams and Form 362's have been transmitted to Chief, Tides Branch.

U. S. DEPARTMENT OF COMMERCE  
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
NATIONAL OCEAN SURVEY 8/29/72

TIDE NOTE FOR HYDROGRAPHIC SHEET

Processing Division: Pacific Marine Center

Hourly heights are approved for hourly heights smooth printout

Tide Station Used (NOAA Form 77-12): Point Baker, Alaska

Period: May 3, 1971 (123-203)

HYDROGRAPHIC SHEET H-9215, H-9223, (9217) *and 9218*

OPR 448

*H-9217 per telegram with  
C331 9/12/72  
mw*

Locality: Sumner Strait

Plane of reference (mean lower low water) = 3.5  
which is 3.5 feet on tide staff.

Height of Mean High Water above Plane of Reference is 11.9 ft.

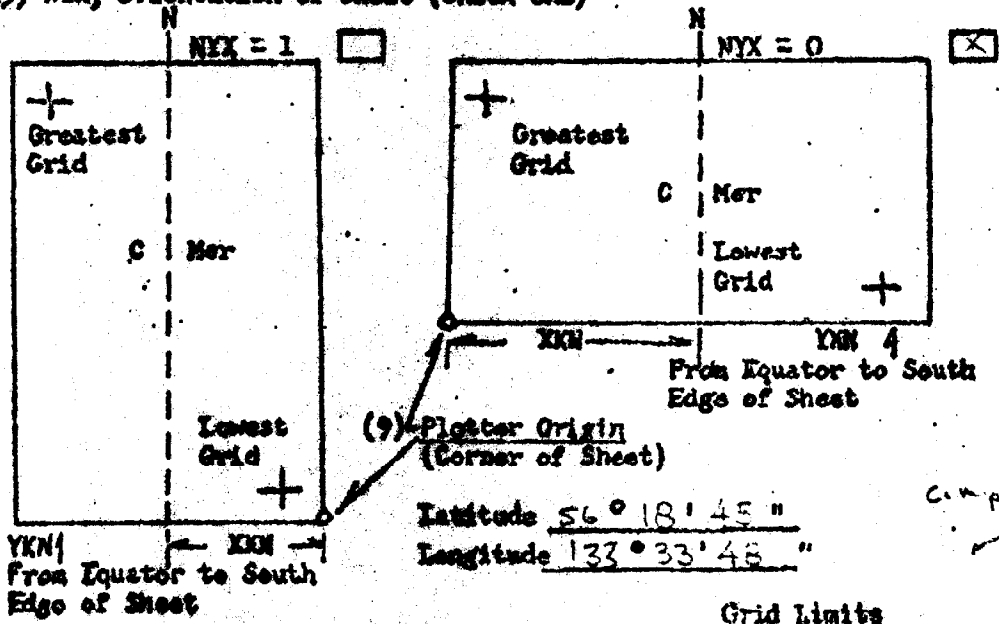
Remarks: Hourly heights have been corrected for June 8, 1971  
and June 9, 1971 and are indicated on printout in red.

*Approved  
9/2/72*

*Robert A. Cummings*  
Chief, Tides Branch

**ELECTRONIC PROJECTION**

- (1) Project No. 4-11 (4) Requested by Col. Ray E. Meyer  
 (2) H No. \_\_\_\_\_ (5) Ship or Office DAVENSON  
 (3) Field No. "X" (6) Date Required ASAP  
 (7) Visual  Ft. (0) or Fathoms (1)  (8) Electronic  (fill out form #3)  
 (10) XKN (SP 5) Distance from CMER to East Edge (NYX = 1) 6448.77  
 or West Edge (NYX = 0). (Origin) 7014.254 Meters  
 (11) YKN (SP 241) Distances from Equator to South Edge  
 of Sheet. (Origin) 6,243,144.630 Meters  
 (12) Central Meridian 133° 27' <sup>30</sup> 00"  
 (13) Survey Scale 1:10000  
 (14) Size of Sheet (Check one) 36x60  42x60   
 (15) NYX, Orientation of sheet (Check one)



Computed by whf  
by KKA

Grid Limits	
(16) Greatest Latitude	<u>56° 23' 30"</u> (Projection Line Interval Page 4 Hydro Manual)
(17) Lowest Latitude	<u>56° 19' 00"</u>
(18) Difference	<u>4' 30"</u>
(19)	<u>30"</u>
(20)	<u>9" X 5</u>
(21) Greatest Longitude	<u>133° 33' 30"</u>
(22) Lowest Longitude	<u>133° 20' 30"</u>
(23) Difference	<u>13' 00"</u>
(24)	<u>130"</u>
(25)	<u>26" X 5</u>

TRIANGULATION STATIONS

	<u>Lat.</u>	<u>Long.</u>
WEST, 1915-16	56° 20' 24.202" (748.6m)	133° 21' 22.209" (381.6m)
SID, 1915	56° 20' 40.110" (1240.6m)	133° 29' 20.853" (358.2m)

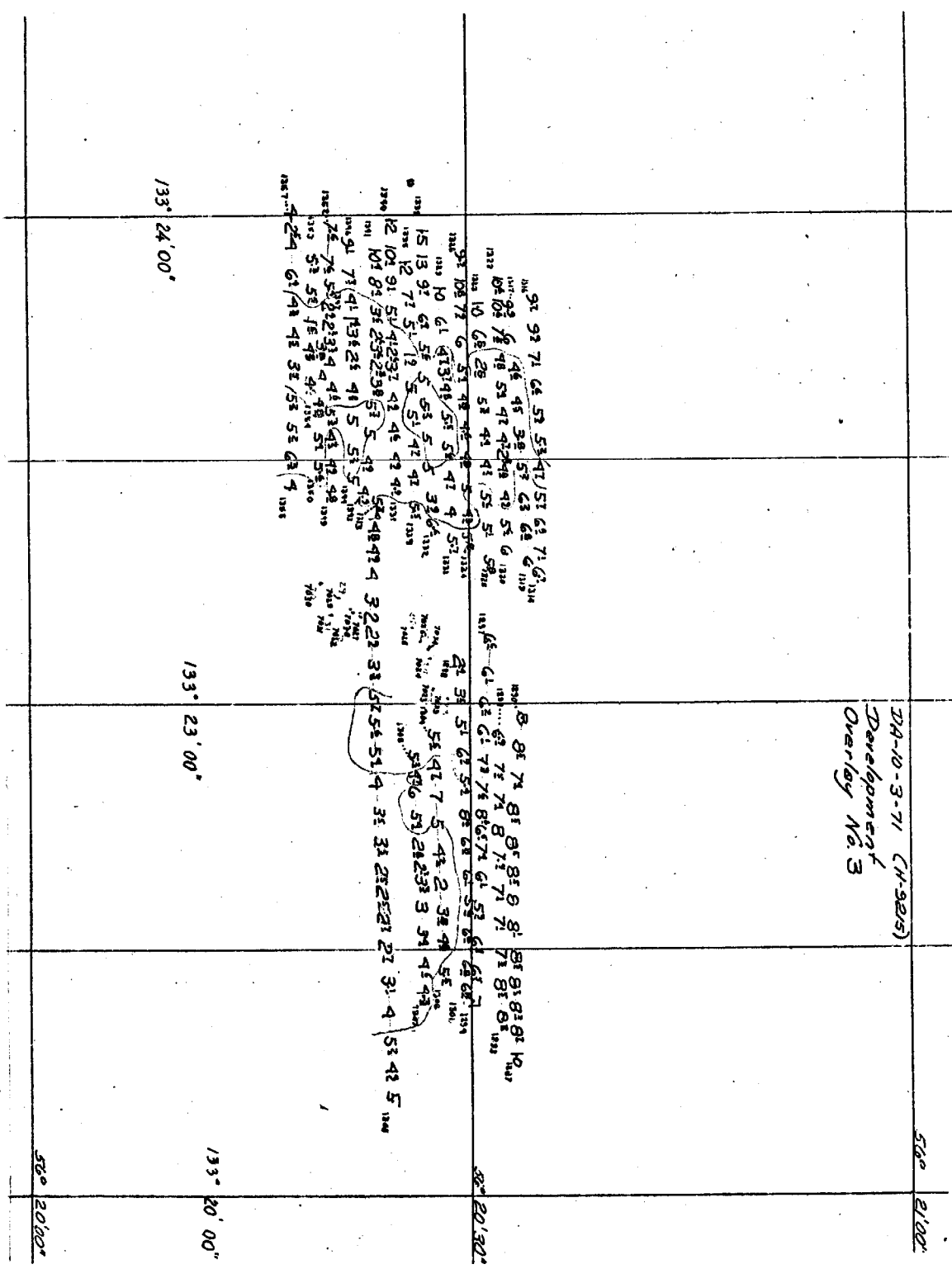
ABSTRACT OF POSITIONS

<u>DAY</u>	<u>LAUNCH DA-1</u>	<u>LAUNCH DA-2</u>	<u>BOTTOM SAMPLES/ DETACHED POSITIONS</u>
126		1-53 (1)	
128	3001-3225 (3)	54-300 (2)	
129	3226-3425 (4)	301-494 (5)	
131	3426-3591 (6)	495-697 (7)	7001-7007 (15)
133	3592-3818 (8)	698-781 (9)	
144		782-915 (10)	
145		916-1065 (11)	7008-7020 (15)
146		1066-1216 (12)	7021-7022 (15)
147		1217-1357 (13)	7023-7041 (15)
148	3819-3823 (3)		8001-8004 (15) 8005-8014 (15)
153			8015-8027 (15)
158			8028-8036 (15)

LIST OF STATIONS ON DA-10-3-71

<u>Signal Number</u>	<u>Origin of Station</u>
301	T-12467
303	"
304	"
305	"
306	"
307	Vol.16, page 3
308	T-12467
309	"
310	"
311	"
312	"
313	"
314	SID, 1915
315	T-12468
316	Vol.16, page 4
317	T-12468
318	"
319	Vol.16, page 4
320	T-12468
321	"
322	"
323	"
324	"
325	"
326	"
327	"
328	"
329	"
330	"
331	"
332	"
333	T-12469
334	"
335	"
336	"
337	"
338	"
339	"
340	"
341	"
342	"
343	WEST, 1915, substitute point

DM-10-3-71 (H-9225)  
Development  
Overlay No. 3



133° 24' 00"

133° 23' 00"

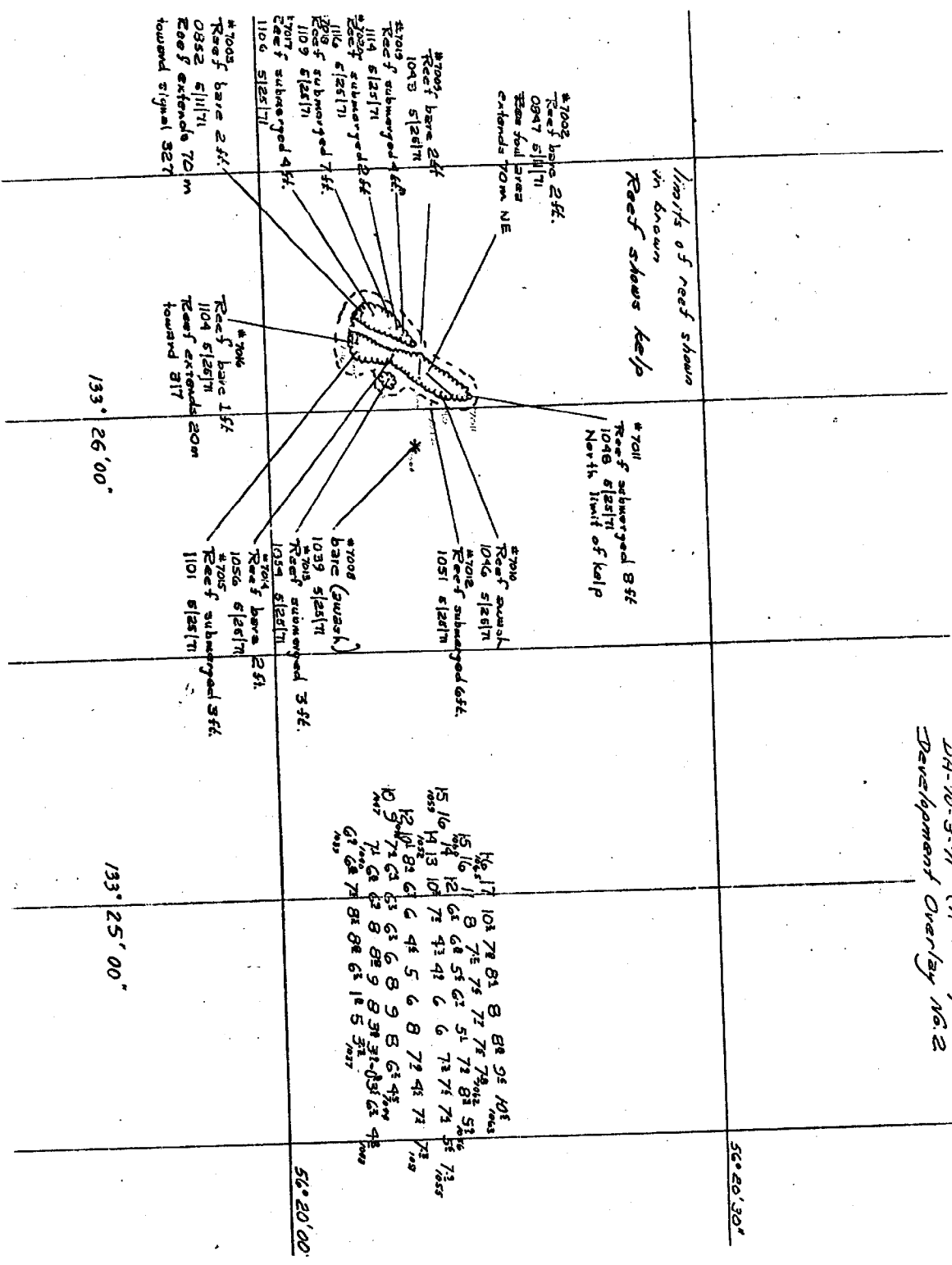
133° 20' 00"

20' 00"

21' 00"

20' 30"

Development Overlay No. 2



Limits of reef shown  
in shown  
Reef shows kelp

\*7011  
Reef submerged 8 ft  
1048 s12s17n  
North limit of kelp

\*7008  
Reef bare 2 ft.  
0947 s11l17n  
Reef foil area  
extends 70m NE

\*7009  
Reef bare 2 ft  
1043 s12s17n  
Reef submerged 4 ft.

\*7009  
Reef submerged 4 ft.  
1119 s12s17n  
Reef submerged 2 ft.

\*7009  
Reef submerged 2 ft.  
1116 s12s17n  
Reef submerged 7 ft.

\*7009  
Reef submerged 7 ft.  
1109 s12s17n  
Reef submerged 4 ft.

\*7009  
Reef submerged 4 ft.  
1106 s12s17n

\*7003  
Reef bare 2 ft.  
0852 s11l17n  
Reef extends 72m  
toward signal 327

\*7006  
Reef bare 1 ft.  
1104 s12s17n  
Reef extends 20m  
toward 817

\*7010  
Reef seaward  
1046 s12s17n  
Reef submerged 6 ft.  
1051 s12s17n

\*7008  
bare (gypsum)  
1039 s12s17n  
Reef submerged 3 ft.  
1034 s12s17n

\*7004  
Reef bare 2 ft.  
1056 s12s17n  
Reef submerged 3 ft.  
1101 s12s17n

He 17 101 78 81 8 88 92 101  
15 16 1 8 75 75 72 75 79 81 81 81 81  
15 16 14 12 68 58 62 51 72 81 51 51 51  
15 16 14 10 72 43 42 6 6 72 74 74  
12 14 82 6 6 42 5 6 8 72 42 74  
10 3 71 62 63 6 8 9 8 62 42  
71 62 62 8 82 9 8 31-031 62 42  
62 62 74 81 82 62 12 5 31-031 62 42

56° 20' 30"

56° 20' 00"

133° 26' 00"

133° 25' 00"



DA-10-3-71 (H-9815)  
Development Cherry No. 1

56° 20' 30"

24 22 22 24 23 16 13 11 15  
28 26 21 18 20 13 11 12 H  
25 24 20 11 12 12 93 98 101  
20 20 20 17 12 12 98 96 107  
H 15 16 15 10 8 82 9 31  
S 176

25 24 23 13 6 9 7 2 15 14  
23 13 8 6 5 4 11 12 5 11  
14 20 22 20 10 7 8 8 4 12  
R 11 15 15 19 18 15 4 7 2 6  
8 12 13 16 16 13 13 14 7 1  
9 3 10 11 12 14 7 14 7 14  
S 176

133° 27' 00"

133° 26' 00"

133° 25' 30"

56° 20' 00"

Proc 9-15-71

DA -10-3-71  
OPR 448 AREA Summer Strait  
VESSEL 1  
DAY \_\_\_\_\_  
POSITION \_\_\_\_\_ TO \_\_\_\_\_  
TYPE OF TAPE Signal Tape  
VOLUME \_\_\_\_\_ Degr

H-0215

EOAT # 31121

NOTE: SIGNAL IS DEGREES, MINUTES AND METERS.

313 200 1971

301	56 21 0342	133 34 0365	AAA
303	56 21 0100	133 33 0781	BBB
304	56 20 1783	133 33 0499	CCC
305	56 20 1691	133 32 1014	DDD
306	56 20 1806	133 32 0686	EEE
307	56 20 1659	133 31 0994	FFF
308	56 20 1272	133 31 0878	GGG
309	56 20 1267	133 31 0576	HHH
310	56 20 1486	133 31 0369	III
311	56 20 13 <sup>69</sup> <del>74</del>	133 30 0760	JJJ - 7/25/72
312	56 20 1237	133 29 0942	KKK
313	56 20 1069	133 29 0768	LLL
314	56 20 1241	133 29 0358	MMM
315	56 20 1131	133 28 0945	NNN
316	56 20 0669	133 28 0901	OOO

319	56 19 1812	133 27 0904	RRR
320	56 19 0098	133 27 0451	SSS
321	56 20 0140	133 26 0856	TTT
322	56 19 1663	133 26 0686	UUU
323	56 19 1548	133 26 0220	VVV
324	56 19 1746	133 25 0938	WWW
325	56 19 1521	133 25 0478	XXX
326	56 19 1325	133 25 0211	YYY
327	56 19 1803	133 24 0968	ZZZ
328	56 20 0046	133 24 0822	ABC
329	56 19 1799	133 24 0639	CDE
330	56 19 1786	133 24 0486	FGF
331	56 20 02 <sup>78</sup> <del>27</del>	133 24 0314	GHI
332	56 20 0463	133 23 1022	IJK
333	56 20 0288	133 24 0162	KLM
334	56 20 0107	133 24 0127	MNO
335	56 19 1641	133 24 0215	OPQ
336	56 20 0072	133 23 1006	QRS
337	56 20 0338	133 23 0490	STU
338	56 20 0110	133 23 0330	UVW
339	56 20 0049	133 22 0994	WXY
340	56 20 0360	133 22 0654	XYZ
341	56 20 0252	133 22 0061	AAB
342	56 20 01 <sup>25</sup> <del>30</del>	133 21 05 <sup>64</sup> <del>53</del>	CCD
343	56 20 0736	133 21 0408	EFF
344	56 20 0548	133 20 0704	END

01121	301	71	56211106	133342125	00112	04749	301
01121	302	71	56210323	133334547	00756	04494	302
01121	304	71	56205764	133332908	01052	04312	304
01121	305	71	56205467	133325904	01593	04215	305
01121	306	71	56205839	133323994	01938	04335	306
01121	307	71	56205364	133315737	02696	04180	307
01121	308	71	56204112	133315111	02812	03774	308
01121	309	71	56204096	133313353	02125	03768	309
01121	310	71	56204804	133312148	03352	03998	310
01121	311	71	56204426	133304425	04024	03874	311
01121	312	71	56203999	133295454	04914	03725	312
01121	313	71	56203456	133294471	05097	03559	313
01121	314	71	56204012	133292094	05023	03739	314
01121	315	71	56203657	133295501	05994	03624	315
01121	316	71	56202163	133285245	06039	03122	316
01121	317	71	56201388	133283248	06400	03049	317
01121	318	71	56200950	133281595	06698	02754	318
01121	319	71	56195853	133278261	07219	02390	319
01121	320	71	56200317	133272624	07594	02529	320
01121	321	71	56200483	133264982	08251	02593	321
01121	322	71	56195377	133263952	08420	02224	322
01121	323	71	56195008	133261280	08919	02113	323
01121	324	71	56195643	133255453	09248	02321	324
01121	325	71	56194918	133252732	09731	02085	325
01121	326	71	56194284	133251228	10011	01979	326
01121	327	71	56195029	133245634	10299	02381	327
01121	328	71	56200149	133244704	10452	02489	328
01121	329	71	56195810	133243719	10644	02377	329
01121	330	71	56195774	133242223	10803	02264	330
01121	331	71	56200899	133241823	10965	02729	331
01121	332	71	56201497	133235949	11324	02324	332
01121	333	71	56200931	133240942	11144	02740	333
01121	334	71	56200344	133240739	11181	02560	334
01121	335	71	56195305	133241251	11039	02212	335
01121	336	71	56200233	133235355	11341	02513	336
01121	337	71	56201093	133232852	11362	02793	337
01121	338	71	56200356	133231321	12020	02552	338
01121	339	71	56200158	133225785	12436	02490	339
01121	340	71	56201164	133223807	12792	02817	340
01121	341	71	56200815	133220355	13413	02704	341
01121	342	71	56200404	133213222	13970	02572	342
01121	343	71	56202380	133212575	14132	03213	343
01121	344	71	56201772	133200098	14904	03817	344

TABLES OF CORRECTIONS TO ECHO SOUNDERS FOR OPR 448 1971

VELOCITY TABLES NUMBERED 1 - 26 FOR SURVEYS H-9213 THROUGH H-9223

SURVEY REG. NO.	FIELD NO.	VEL. TABLE NO.
H-9213	DA 10-1-71	01, 02, 03, 04
9214	10-2-71	01, 05, 06, 07, 08
9215	10-3-71	01, 11, 12
9216	10-4-71	01, 13, 14
9217	10-5-71	01, 14, 15
9218	10-6-71	17, 18, 19
9219	10-7-71	20
9220	10-8-71	21, 22
9221	10-9-71	23, 24
	10-10-71	25, 26
9222	05-1-71	01, 09, 10
9223	20-1-71	01

ALL CORRECTORS IN FATHOMS

0215

HERNO II AND III PARAMETER CA

H  
Field No. 0215  
Date 2-22-71

PARAMETER CARD II

PARAMETER CARD II

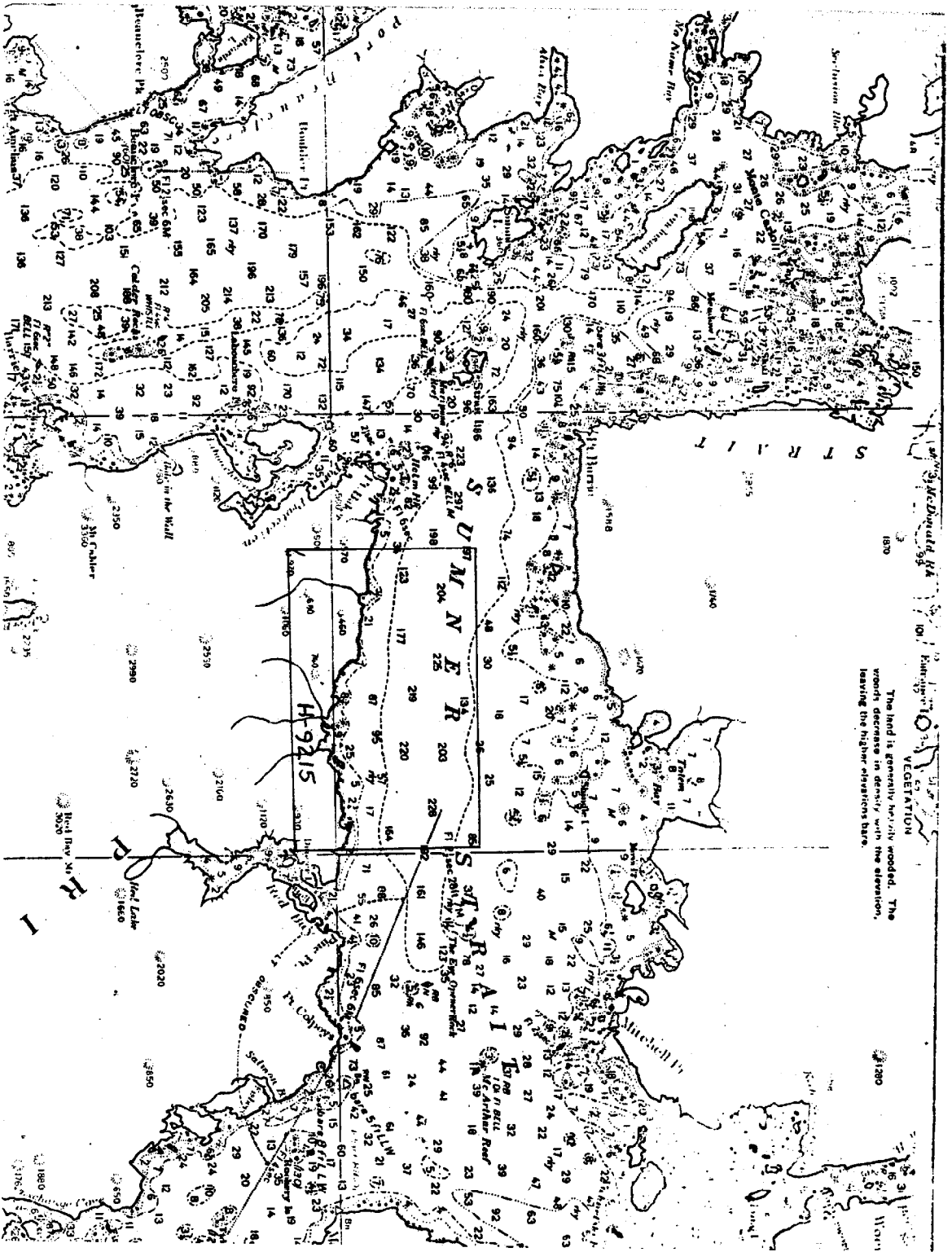
Semi major axis of the earth	6,378,206.4									
X Constant - Distance from central meridian to origin of plotter SP 5	meters									
Y Constant - Distance from equator to origin of plotter SP 2/1	meters									
Central Meridian of Projection	1	2	3	4	5	6	7	8	9	10
Plotter Scale/Survey Scale	1	2	3	4	5	6	7	8	9	10
North/south axis of sheet - to correspond to (Y axis - 0)	*10,998,6876									
Feet/Fathom indicator	1 - Feet									
H Identification No.	JR									

POF - 1

PARAMETER CARD III

Lowest Lat. Intersection	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0
Lowest Long. Intersection	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
Difference between Grid	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6
Interval (Long)	XSN															
Interval (Lat)	YSN															

Computed  
Punched  
Checked  
Date



The land is generally heavily wooded. The woods decrease in density with the elevation, leaving the higher elevations bare.

APPROVAL SHEET

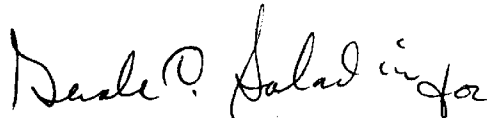
OPR-448

DA-10-3-71

SUMNER STRAIT

SOUTHEAST ALASKA

The field work on this survey was accomplished under my supervision. Frequent inspections were made of the boatsheet and other records.



Ray E. Moses  
CDR. NOAA  
Commanding Officer  
NOAA Ship DAVIDSON



GEOGRAPHIC NAMES

B-9215

Name on Survey	Source of Information											
	A	B	C	D	E	F	G	H	K			
	ON CHART NO.	ON PREVIOUS SURVEY NO.	ON U.S. QUADRANGLE MAPS	FROM LOCAL INFORMATION	ON LOCAL MAPS	P.O. GUIDE OR MAP	RAND McNALLY ATLAS	U.S. LIGHT LIST				
BUSTER BAY												1
BUSTER CREEK												2
CAMP CREEK												3
PRINCE OF WALES ISLAND												4
SHINE CREEK												5
STRAIT CREEK												6
SUMNER STRAIT												7
												8
												9
												10
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												23
												24
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PREPARED BY CARTOGRAPHER

*Chas. E. Harrington*

STAFF GEOGRAPHER (ACTING)

14 Aug 1973

HYDROGRAPHIC SURVEY STATISTICS  
HYDROGRAPHIC SURVEY NO. H-9215

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		2	OVERLAYS		8	
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES	*		*			
CAHIERS	1					
VOLUMES	26	8				
BOXES			1			

T-SHEET PRINTS (List)

~~12467~~, 12468, 12469

SPECIAL REPORTS (List)

Name

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				
POSITIONS CHECKED		2180		
POSITIONS REVISED		73		
DEPTH SOUNDINGS REVISED		425		
DEPTH SOUNDINGS ERRONEOUSLY SPACED		54		
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED		0		
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS		121		
JUNCTIONS		4		
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS		146		
SPECIAL ADJUSTMENTS		65		
ALL OTHER WORK		36		
TOTALS		372		
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY J.E. LOTSHAW	3 AUG 72		15 JUNE 73	
REVIEW BY	BEGINNING DATE		ENDING DATE	

VERIFIER'S REPORT  
HYDROGRAPHIC SURVEY, H 9215

**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	Part III - JUNCTIONS (Continued)	CL	R
<p><b>Note:</b> The verifier should first read the Descriptive Report for general information and problems.</p> <p>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</p>	✓		<p>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.</p>	✓	
<p>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</p>	✓		<p><b>Part IV - VOLUMES</b></p> <p>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</p>	✓	
<p>3. All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. Remarks Required: -- None</p>	✓		<p>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 ✓ (b) line turns ✓ (c) position values of beginning and ending of lines ✓ (d) bar check or velocity correctors ✓ (e) time recording ✓ (f) notes or markings on fathograms ✓ (g) was reduction of soundings accurately done? ✓ (h) was scanning accurate? ✓ (i) were peaks at uneven intervals missed? ✓ (j) were stamps completed? ✓ (k) references to adjacent features ✓</p>		
<p><b>Part II - SHORELINE AND SIGNALS</b></p> <p>4. Source of shoreline signals Remarks Required: -- List all surveys a. Give earliest and latest dates of photographs b. Field inspection date c. Field Edit date d. Reviewed-Unreviewed</p>		✓			
<p>5. The transfer of contemporary topographic information was carefully examined and reconciled with the hydrography. Remarks Required: -- Discuss remaining differences.</p>		✓			
<p>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</p>	✓				
<p>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.</p>	✓		<p><b>Part V - PROTRACTING</b></p> <p>13. All positions verified instrumentally were check marked in color in the sounding records, and verifier initialed the processing stamp. Remarks Required: -- None</p>	✓	
<p><b>Part III - JUNCTIONS</b></p> <p><b>Note:</b> Make a cursory comparison preliminary to inking soundings in area of overlap.</p> <p>8. All junctions of contemporary or overlapping sheets were transferred in colored ink and overlapping curves were made identical. Remarks Required: -- None</p>	✓		<p>14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: -- None</p>	✓	
<p>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</p>	✓		<p>15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: -- None</p>	✓	

Part V - PROTRACTING (Continued)	CL	R	Part VIII - AIDS TO NAVIGATION	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 reploting or adjustments.	✓		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.	✓	
17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.	✓		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	✓	
<b>Part VI - SOUNDINGS</b> 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None	✓		<b>Part IX - BOATSHEET</b> 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	✓	
19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.	✓		29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.	✓	
The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None	✓		<b>Part X - GENERAL</b> 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	✓	
21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None	✓		31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None	✓	
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.	✓		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	✓	
<b>Part VII - CURVES</b> 23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected. <i>Richard D. Lynn</i>		✓	33. The bottom characteristics are adequately shown. Remarks Required: -- None	✓	
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	✓		<b>Part XI - NOTES TO THE REVIEWER</b> 34. Unresolved discrepancies and questionable soundings.	✓	
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.	✓		35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.	✓	
			36. Supplemental information.		✓
Verified by			Date		

VERIFIER'S REPORT

H-9215

Buster Bay, Sumner Strait

DA-10-3-71

This sheet was constructed and plotted at Pacific Marine Center, Seattle, Washington. Information relating to this will be noted under the heading by the number and letter as on the Verifier's Report, C&GS Form 946A.

PART II SHORELINE AND SIGNALS

4. Shoreline detail was extracted from advance manuscripts T-12467, T-12468, and T-12469. Date of photography was August, 1969, and the date of field edit was May, 1972.

5. The reef depicted in overlay # 2 is shown as a foul area on the related T-sheet. This development has been inked in red on the smooth sheet to show a change in topographic detail.

PART III JUNCTIONS

8. Junctions with contemporary surveys DA-10-4-71 and DA-20-1-71 were not accomplished because those surveys are in an earlier stage of production. Junction with the 1954 survey, H-8149, shows general agreement of soundings, with most differences less than 1 fm. No gross change in bottom configuration was detected in the junction area.

12. Initial scanning contained numerous errors and omissions in logging of times, peaks, and deeps.

PART VII CURVES

23. Depth curves were inspected by Richard D. Lynn, cartographic technician.

36. The quality of paper used to plot this survey was deficient in some respects. Some portions of the paper absorbs ink readily while others accept inking only with difficulty. This condition has caused a variation in the darkness of printed soundings ranging from intense black to light shades of gray. The faintest soundings have been intensified by hand inking.

Respectfully submitted,

  
John Lotshaw  
Cartographic Technician

APPROVAL SHEET

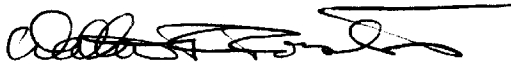
The smooth sheet has been inspected, is complete, and meets the requirements of the General Instructions for automated surveys and the Hydrographic Manual. (Note: All exceptions are listed in the Verifier's Report)

Examined and approved,

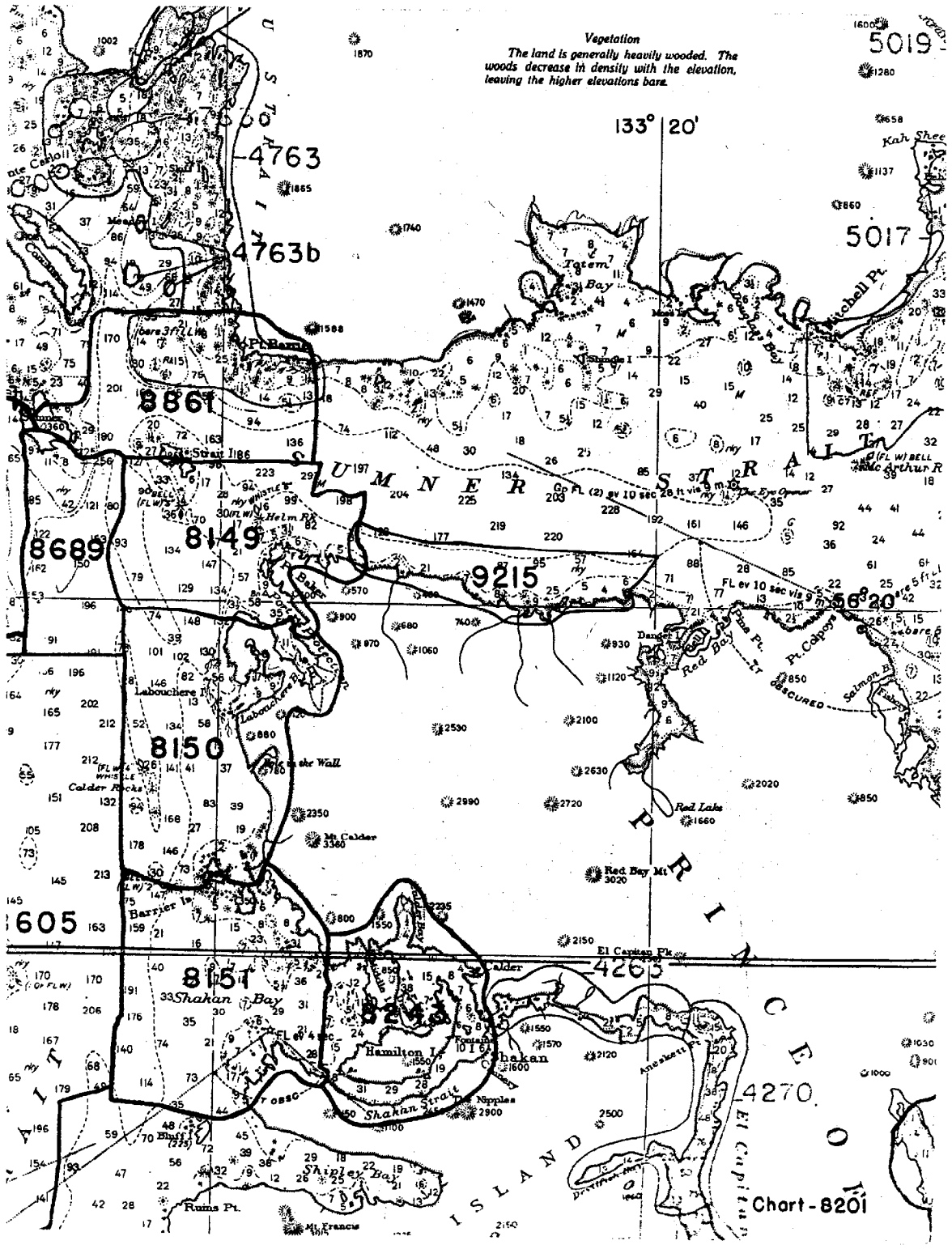


Cornelius A. J. Pauw  
Supervisory Cartographic Tech.

Approved and forwarded,



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



**Vegetation**  
 The land is generally heavily wooded. The woods decrease in density with the elevation, leaving the higher elevations bare.

5019  
 1280

133° 20'

4763

4763b

5017

8861

8149

9215

8689

8150

5680

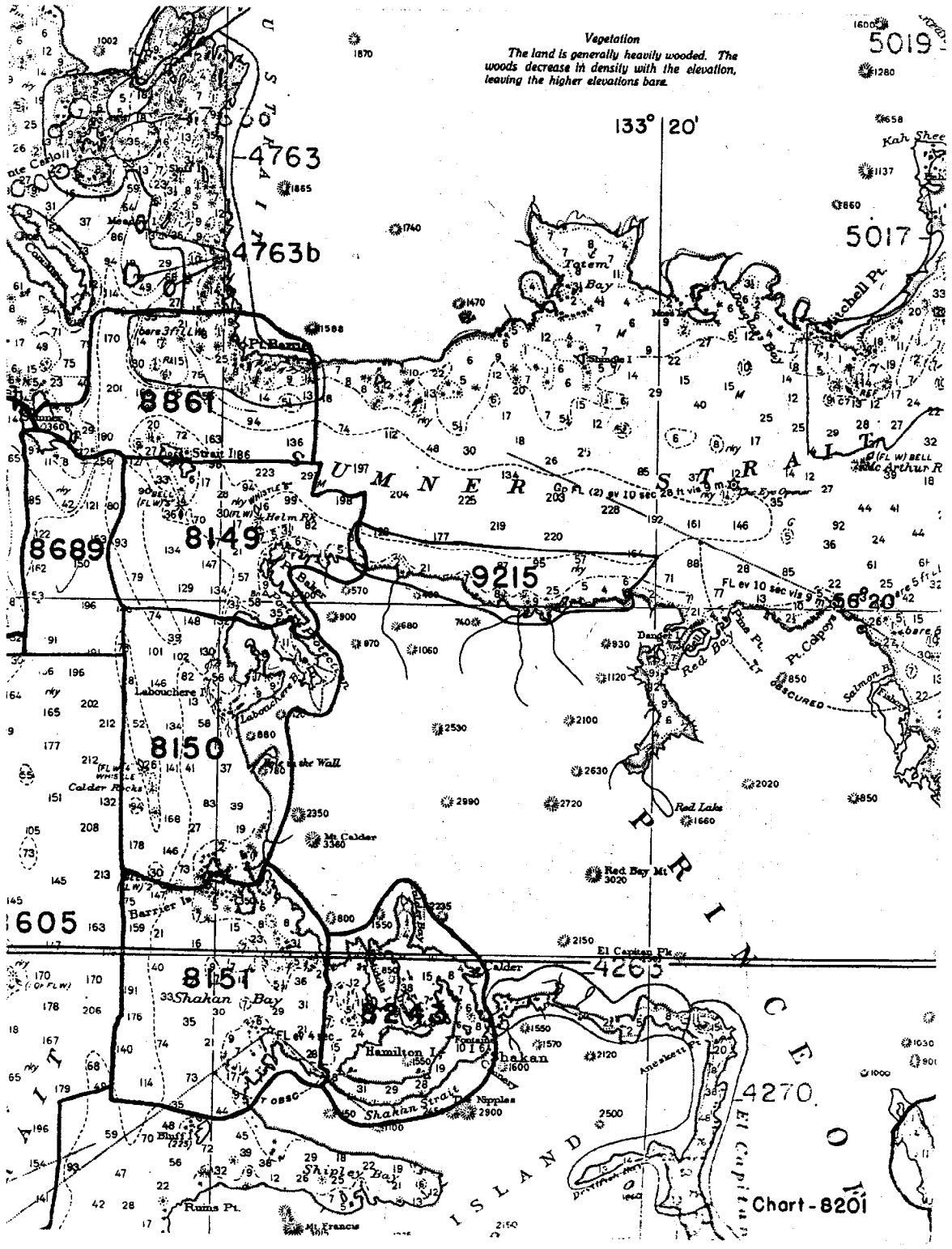
605

8151

4265

4270

Chart-8201



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-9215

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
8201	10/17/73	Jones Dredon	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>24</u> <sup>Before</sup> <u>App'd mid hydro corrections after verification</u>
8168	18 NOV 75	Nann Haasman	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>5</u> <u>Exam No. Corr. for critical corrections only. No correction at this time.</u>
8201	3-14-77	PA. Sager	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>Exam. FOR CRITICAL CORRECTIONS. Minor revisions considered fully applied as a class I survey. NO CORRECTIONS AT THIS TIME.</u>
8174	5/2/77	J. A. Graham	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>10</u> <u>fully app'd class I hydro survey after verification only.</u>
8168 (17381)	1/25/79	Kennan, D.J.	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>7</u> <u>Add a 2 1/2 sds. in lat 56° 20' 24.85" - 132° 22' 25" Revised 3fm curve.</u>
17360	1/25/79	Kennan	<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No. <u>Examined no curr - un-reviewed survey. final application -</u>
			<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No.
			<del>Full Part Before</del> After Verification Review Inspection Signed Via Drawing No.
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