

8655



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AUTHORITY *Ltr Oceanav
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Diag. Cht. No. 9400

Form 504
U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT
Project OPR 420

Type of Survey Hydrographic

Field No. SU 100-2-62 Office No. H-8655

LOCALITY

State Alaska

General locality Chukchi Sea

Locality Northwest of Cape
Lisburne

19 62

CHIEF OF PARTY

Wilbur R. Porter

LIBRARY & ARCHIVES

DATE APR 1 1964

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PURSUANT TO DOC SYSTEMATIC REVIEW
GUIDELINES AS DESCRIBED IN SECTION
3.3(f), EXECUTIVE ORDER 12356.

8655



DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

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

REGISTER No. H-8655

Field No. SU-100-2-62

State Alaska

General locality Chukchi Sea

Locality Cape Lisburne

Scale 1:100,000 Date of survey 21 July - 8 Sept. 1962

Instructions dated 9 May 1961, 2 May 1962

Vessel USC&GS SURVEYOR

Chief of party Wilbur R. Porter, Captain C&GS

Surveyed by Ship's Personnel

Soundings taken by ~~fathometer~~, graphic recorder, ~~hand lead, wire~~

Fathograms scaled by Ship Personnel

Fathograms checked by Ship Personnel

Protracted by LTJG R. L. Swanson

Soundings penciled by LTJG R. L. Swanson

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

REMARKS: (See next page)

JW

DESCRIPTIVE REPORT H-8655 (1962)

Note:

This report was received in the Washington Office in rough form. An effort has been made to make it as complete as possible. However, the Special Report SU-20-62, Raydist Calibration Methods and Results, Project OPR-420, could not be located, so an abstract of Raydist corrections could not be inserted into the Descriptive Report.

In addition, the abstract of zones of velocity corrections for Pos. 1A to 63+2J could not be found.

With the exception of the items mentioned above it is considered that this report is now reasonably complete.



Dale E. Westbrook
Review Section
Hydrographic Branch

June 8, 1965

Descriptive Report

To Accompany Hydrographic Survey H-8655, (SU 100-2-62)

USC&GS SHIP SURVEYOR - Captain Wilbur R. Porter, Commanding
Scale 1:100,000
1962

A Project

This survey H-8655 was part of OPR 420. The original instructions were written 9 May 61 and amended for the 1962 field season on 2 May '62. Letters of Reference are S-2-SU (16 March '61) and 222-83-982S (22 August '61).

B Area Surveyed

The area surveyed was off shore and northwest of Cape Lisburne, Alaska. It covered from 168°00'W eastward to 166°00'W between Latitudes 68°45'N and 70°05'N. The survey began on 21 July 62 and was completed 8 Sept '62. A junction was made with SU 160-2-61 and SU 160-3-61. A junction was also made with contemporary survey SU 100-3-62, H-8557.

C Sounding Vessel

All sounding was done by the Ship SURVEYOR and identified by blue day letters.

D Sounding Equipment

All soundings on this sheet were taken with Raytheon Model DE-723 survey fathometers Nos. 138 and 144. The method used to correct the soundings is shown in Special Report SU-662-Corrections to Echo Soundings. *Add fractions to 20 fm soundings to more accurately fix curves. Also add fractions on west side of sheet in E Smooth Sheet overlap with H-8662 and H-8663*

The projection for the smooth sheet was made in the Washington Office with the ruling machine.

Except for a limited number of positions, the positions on the smooth sheet were replotted rather than being pricked through the boat sheet. It was felt that greater accuracy could be obtained by replotting with very little waste of time. Reasons for this are that the Raydist's curves on the boat sheet were not as accurate as those

on the smooth sheet and that the smooth plotter has more time than the hydrographer to plot the positions accurately. The positions on A day are in error by about three lanes. This is because the final raydist corrections were changed after the smooth plot was begun. Since the crosslines checked, A day ^{was} not changed after the final corrections were arrived at.

can be corrected on automated plot

F Control

All hydrography on the sheet was controlled by Raydist. Raydist stations Rayicy and Raybine were located by triangulation and named RAYICY 1961 and RAYBINE 1961. A discussion of corrections to Raydist is found in Special Report SU 20-62 Project OPR 420, Raydist Calibration Methods and results. Freq. 3280 kc.

← *Not available in Wash. office*

G Shoreline

No shoreline was put on the sheet. The small portion of Cape Lisburne that could have been put on the sheet was left off since the sheet is off shore and no shoreline at the proper scale was available.

H Crosslines

Approximately 7.1% of the lines run were crosslines. All crosslines agree satisfactorily. In the few cases where soundings in fathoms do not agree, it is due to their being rounded off between 0.7 and 0.8 fathoms. When checked to tenths, they agree satisfactorily. The crosslines generally agree to 0.1% of the depth.

I Junctions

This sheet makes a junction with the contemporary survey SU-100-3-62. There is no overlap of sounding lines since the hydrography was continuous, but parallel sounding lines are in good agreement.

This survey makes a junction with prior surveys SU-160-2-61 and SU-160-3-61. There appears to be excellent agreement between the two surveys.

J Comparison with Prior Surveys

There are no prior surveys of the area.

K Comparison with the Chart

Since only reconnaissance surveys had previously been made in the project area there are relatively few charted soundings available.

A comparison was made with C&GS Chart 9400, 1:1,587,870 printed 25 June 56. The soundings are in poor agreement. Discrepancies are listed below:

<u>Latitude</u>	<u>Longitude</u>	<u>Charted Depth</u>	<u>Sounded Depth</u>
69°51'N	167°54'W	32	27
69°04'N	167°17'W	18	27
69°38'N	166°12'W	19	22

Handwritten note: 11 soundings until after noon

The same soundings appear to be in error on C&GS Chart 9402, 1:700,000 printed August 1950 and revised 11 April 55 and on H. O. Chart 6782, 1:1,000,000 printed 18 July '60.

A discrepancy was noticed on the charts 9402 and 9400 and the T sheet T-9410. The western tip of Cape Lisburne on Chart 9402 is approximated at Longitude 166°19.5'W while on the T sheet it is at 166°12.6'W. The position on the chart appears to be in error since bearings taken to Cape Lisburne did not check the positions when sailing between Pt. Hope and Cape Lisburne.

L Adequacy of Survey

The survey is considered adequate and complete.

M Aids to navigation

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

N Statistics

Positions	3356
Nautical Miles Sdg. Line with turns	4141.3
Nautical Miles Sdg. Line exclusive of turns	4088.3
Current Stations	1
Oceanographic Stations	5
Bottom Samples	83

O Miscellaneous

The squat and settlement test was run on this sheet for correction to echo soundings.

P Recommendations

None

Q References to Reports

1. Special Report SU-20-62 Project OPR 420 Raydist Calibration Methods and Results (not received in Washington Office).
2. Special Report SU-6-62 corrections to Echo Soundings.
3. Special Report SU-21-62 Velocity Corrections.

168°

166°

164°

162°

SU-100-4-62

H-8656

SU-100-3-62

H-8657

C H U K C H

S E A

SU-100-1-62

H-8698

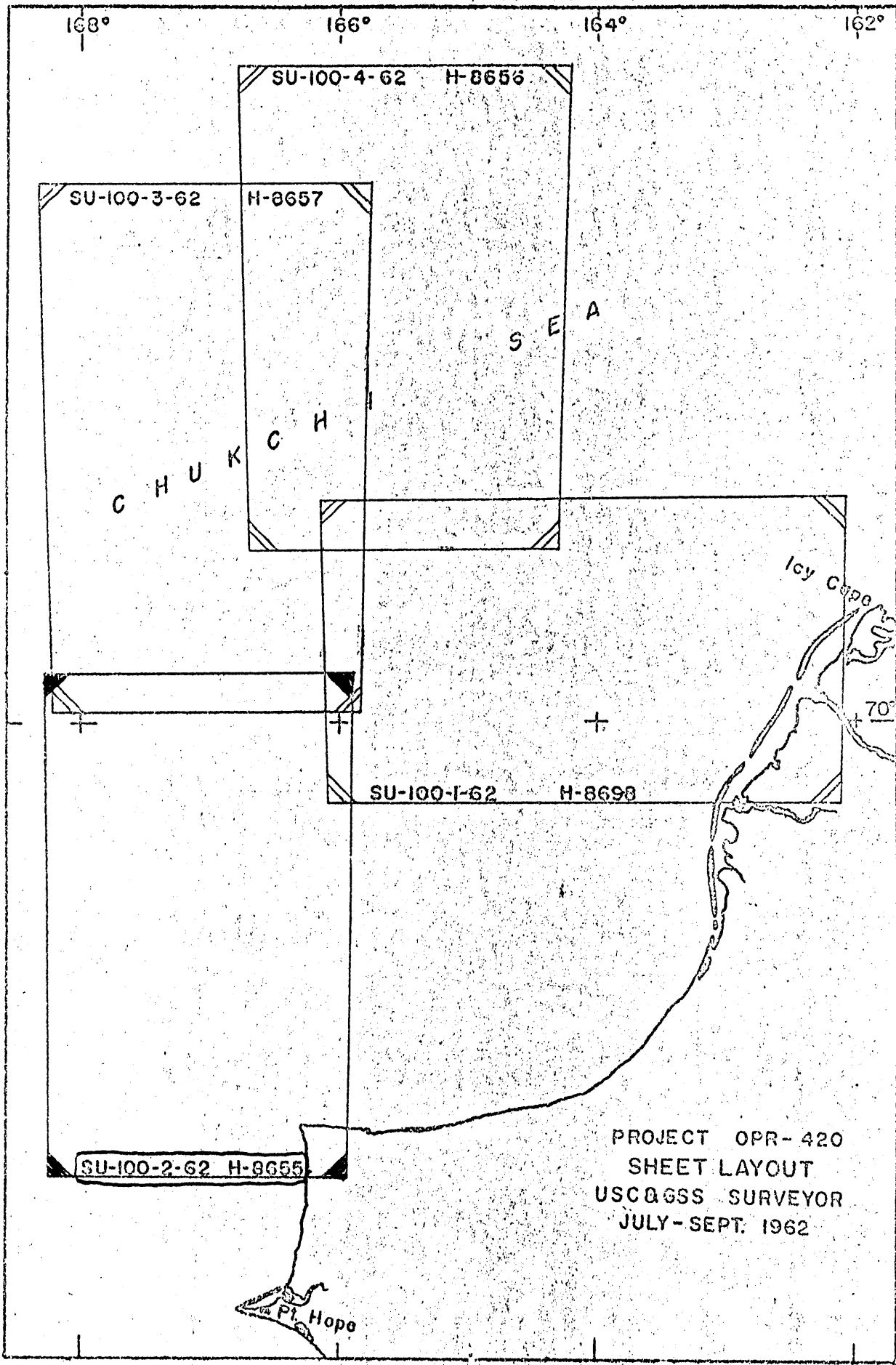
Icy Cape

70°

SU-100-2-62 H-8655

Pt. Hope

PROJECT OPR-420
SHEET LAYOUT
USC&GSS SURVEYOR
JULY-SEPT. 1962



Copied from
Descriptive Report
for H 8656 (1962)

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TIDE NOTE

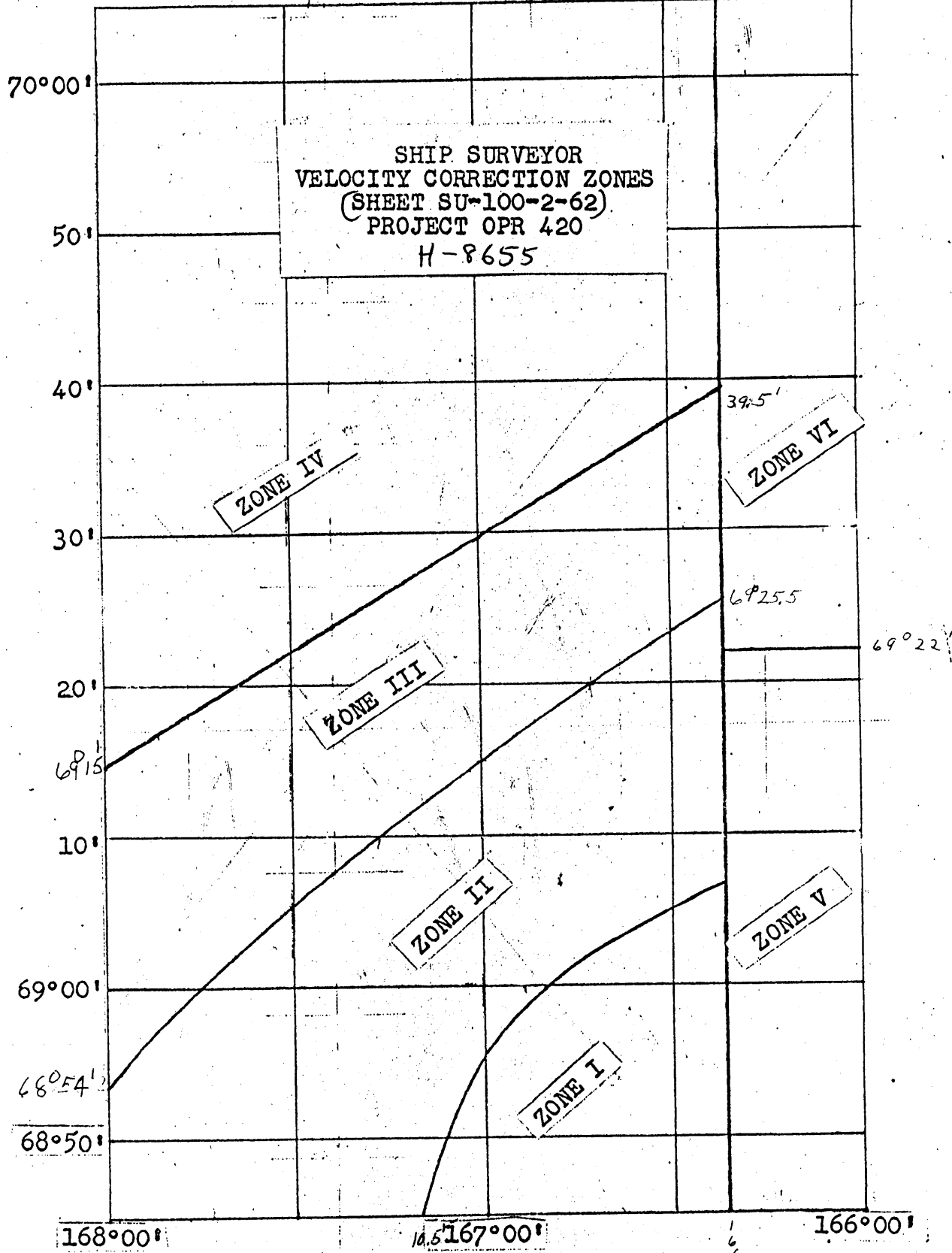
Soundings on this survey were not corrected for tides for the following reasons. There was not enough information on the tides in the area to obtain accurate corrections. The small amount of information available indicated a small range of tide. It was felt that the tides in the area of the sheet were so small they would be masked by wind effect. The authority for not using tide reducers is given in a letter from the Director, dated 22 September 1961, reference No. 222-83-928s.

Copied from
Descriptive Report
for H-8656 (1962)

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INDEX CORRECTIONS
SHIP SURVEYOR - OPR-420
1962

DATE	FROM	TO	DRAFT COR.	DEPTH COR.	SETTLEMENT & SQUAT	TOTAL INDEX CORRECTION	
7/17	Beginning	8/1	0530	0.0	-0.5	+0.2	-0.3
8/1	0531	8/1	0814	-0.1			-0.4
8/3	0311	8/6	0130	+0.1			-0.2
8/6	0131	8/6	0320	0.0			-0.3
8/6	0321	8/6	2210	+0.1			-0.2
8/6	2211	8/7	1300	0.0			-0.3
8/7	1301	8/7	1612	+0.1			-0.2
8/7	1613	8/8	0949	0.0			-0.3
8/8	1040	8/8	1200	+0.1			-0.2
8/8	1201	8/8	1721	0.0			-0.3
8/8	1722	8/8	1800	+0.1			-0.2
8/8	1801	8/17	0830	0.0			-0.3
8/17	0831	8/17	0930	-0.1			-0.4
8/17	0931	8/18	0459	0.0			-0.3
8/18	0500	8/18	1130	+0.1			-0.2
8/18	1131	8/24	0200	0.0			-0.3
8/24	0201	8/24	0400	-0.1			-0.4
8/24	0401	8/25	0415	0.0			-0.3
8/24	0416	8/25	0700	-0.1			-0.4
8/24	0701	8/27	1630	0.0			-0.3
8/27	1631	8/27	2000	-0.1			-0.4
8/27	2001	8/28	0300	0.0			-0.3
8/28	0301	8/28	0800	-0.1			-0.4
8/28	0801	8/29	1334	0.0			-0.3
9/8	0401	9/9	0200	+0.1			-0.2
9/9	0201	9/15	1400	0.0			-0.3
9/15	1401	9/15	2100	-0.1			-0.4
9/15	2101	9/16	0400	0.0			-0.3
9/16	0401	9/16	0700	-0.1			-0.4
9/16	0701	9/16	1300	0.0			-0.3
9/16	1301	9/16	1930	-0.1			-0.4
9/16	1931	9/16	2200	0.0			-0.3
9/16	2201	9/16	2400	-0.1			-0.4
9/17	0001	9/17	0200	0.0			-0.3
9/17	0201	9/17	0330	-0.1			-0.4
9/17	0331	9/17	1600	0.0	-0.5	+0.2	-0.3



Approximated on mylar overlay
to abstract zones for TRA Correction
JHC

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ROUGH DRAFT OF
VELOCITY CORRECTION REPORT
SU-21-62
OPR-420

H-8655

VELOCITY CORRECTIONS

(SHEET SU-100-2-62)

<u>ZONE NO.</u>	<u>DEPTH</u> <u>fms</u>	<u>CORR.</u> <u>fms</u>
1	0 - 8/13 ₁₅₄	0.0
	13 - 23	+0.1
2	0 - 28	0.0
3	0 - 13	0.0
	13 - 28	-0.1
4	0 - 13	0.0
	13 - 23	-0.1
	23 - 28	-0.2

Note;
 Abstract of zones
 for 1A-63+2J missing.

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 OF VELOCITY CORRECTION REPORT
 SU-21-62 OPR-420

Dev

H-8655

ZONES OF VELOCITY CORRECTIONS
 (SHEET SU-100-2-62-H)

Pos. & Sndgs	Zone	Pos. & Sndgs	Zone
63+2J - 72+1J	3	242+2K - 9+1L	2 ✓
72+2J - 137+1J	4	9+2L - 17+1L	3 ✓
137+2J - 152+1J	3	17+2L - 57+2L	4 ✓
152+2J - 173+1J	2 ✓	58L - 66+1L	3 ✓
173+2J - 201+2J	1 ✓	66+2L - 78+1L	2 ✓
202J - 213J	2 ✓	78+2L - 102L	1 ✓
213+1J - 221+1J	3 ✓	102+1L - 112+2L	2 ✓
221+2J - 262+2J	4 ✓	113L - 120+2L	3 ✓
263J - 271+1J	3 ✓	121L - 160+2L	4 ✓
271+2J - 283+2J	2 ✓	161L - 169+1L	3 ✓
284J - 11+2K	1 ✓	169+2L - 181+1L	2 ✓
12K - 24K	2 ✓	181+2L - 183L	1 ✓
24+1K - 32+2K	3 ✓	184L - 202L	2 ✓
33K - 92K	4 ✓	202+1L - 239L	1 ✓
92+1K - 108K	3 ✓	239+1L - 260+2L	2 ✓
108+1K - 119+2K	2 ✓	261L - 276+2L	3 ✓
120K - 130K	1 ✓	277L - 44+1M	4 ✓
130+1K - 142+2K	2 ✓	44+2M - 52+2M	3 ✓
143K - 151+1K	3 ✓	53M - 64+2M	2 ✓
151+2K - 198K	4	65M ✓ - 17N	1 ✓
198+1K - 206+2K	3	17+1N - 38+2N	2 ✓
207K - 218+1K	2	39N - 49+2N	3
218+2K - 242+1K	1 ✓	50N - 77N	4

H-8655
VELOCITY CORRECTIONS
(Sheet SU-100-2-62)

Depth	Zone 5	Zone 6
0.0 - 10.0	0	+0.1
10.1 - 15.0	+ 0.1	+0.1
15.1 - 30.0	+ 0.1	+0.2

Positions	Zone
1P - 8Q	5 -
12Q - 14R+1	6 -
14R+2 - 59R	5
59R+1 - 27S+1	6 ✓
27S+2 - 8U+2	5 -
9U - 7V+2	6 -
8V - 63V	5 -
63V+1 - 96V+2	6 -
97V - 125V	5 -
1W - 30W	6 ✓
30W+1 - 94W	5

HYDROGRAPHIC SURVEY STATISTICS
HYDROGRAPHIC SURVEY NO. 8655

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

RECORD DESCRIPTION		AMOUNT	RECORD DESCRIPTION		AMOUNT	
SMOOTH SHEET		1	BOAT SHEETS		1	
DESCRIPTIVE REPORT		1	OVERLAYS			
DESCRIPTION	DEPTH RECORDS	HORIZ. CONT. RECORDS	PRINTOUTS	TAPE ROLLS	PUNCHED CARDS	ABSTRACTS/ SOURCE DOCUMENTS
ENVELOPES						
CAHIERS	1					
VOLUMES	11					
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				
POSITIONS CHECKED				
POSITIONS REVISED				
DEPTH SOUNDINGS REVISED				
DEPTH SOUNDINGS ERRONEOUSLY SPACED				
SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED				
	TIME (MANHOURS)			
TOPOGRAPHIC DETAILS				
JUNCTIONS				
VERIFICATION OF SOUNDINGS FROM GRAPHIC RECORDS				
SPECIAL ADJUSTMENTS				
ALL OTHER WORK				
TOTALS				
PRE-VERIFICATION BY	BEGINNING DATE		ENDING DATE	
VERIFICATION BY	BEGINNING DATE		ENDING DATE	
REVIEW BY	BEGINNING DATE		ENDING DATE	

VERIFIER'S REPORT
HYDROGRAPHIC SURVEY, H-8655

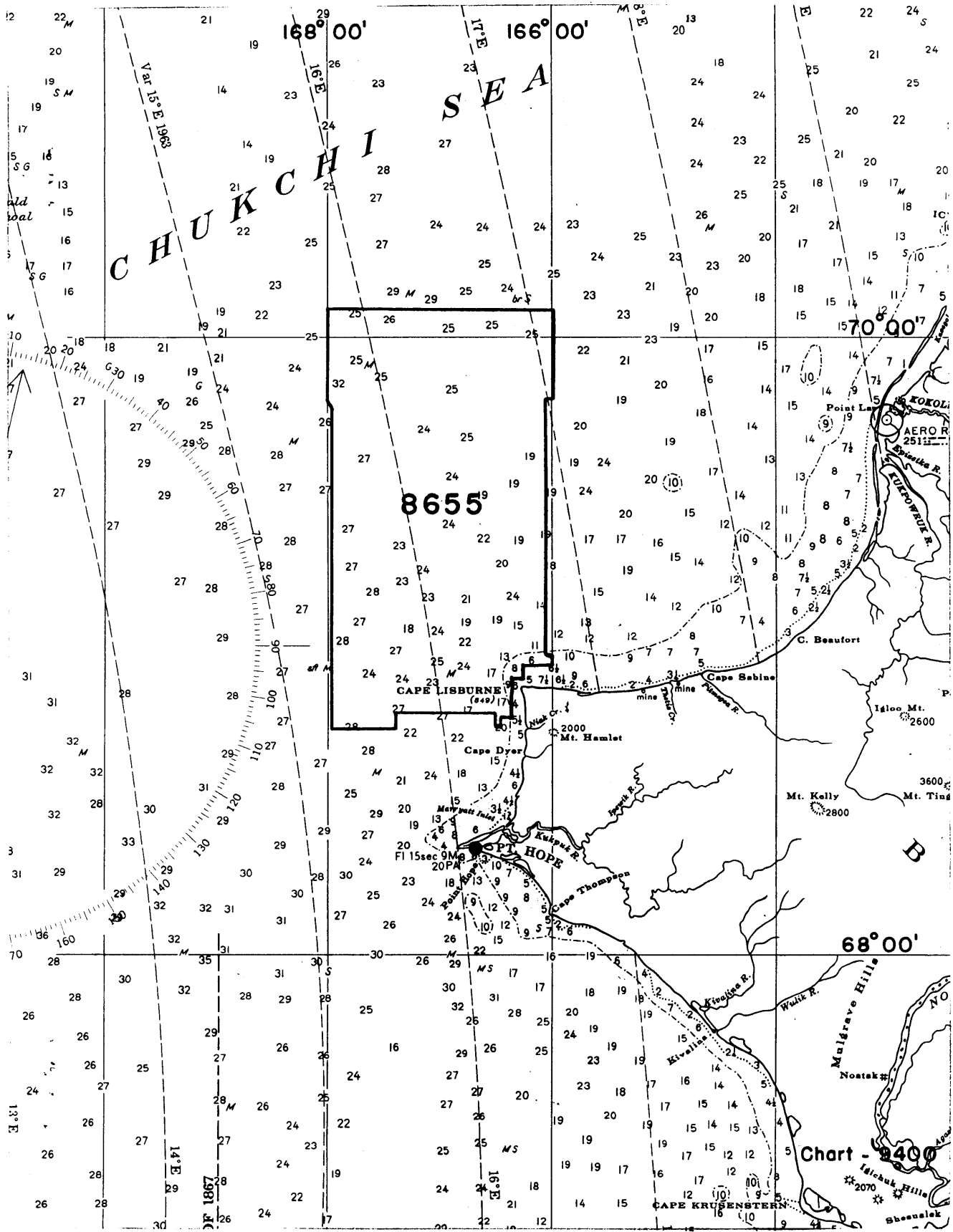
INSTRUCTIONS - This form serves to identify items of a check list in verification together with items which are separately reported to the Reviewer. The form is not to be forwarded to the Reviewer. A report, which is prepared for the Reviewer, should identify items by number and letter and will be filed 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>Note: 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>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</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 stanning accurate? (i) were peaks at uneven intervals missed? (j) were stamps completed? (k) references to adjacent features</p>		
<p>Part II - SHORELINE AND SIGNALS 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>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</p>		
<p>Part III - JUNCTIONS Note: Make a cursory comparison preliminary to inking soundings in area of overlap. 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
<p>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.</p>			<p>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.</p>		
<p>17. The protractor has been checked within the last three months. Remarks Required: -- Date of check, type of protractor and number.</p>			<p>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</p>		
<p>Part VI - SOUNDINGS 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: -- None</p>			<p>Part IX - BOATSHEET 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</p>		
<p>19. Sounding line crossings were satisfactory except as follows: Remarks Required: -- Discuss adjustments.</p>			<p>29. Heights of rocks awash were correctly reduced and compared with topographic information. Remarks Required: -- Note excessive conflicts with topographic information.</p>		
<p>20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: -- None</p>			<p>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</p>		
<p>21. The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: -- None</p> <p>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.</p>			<p>31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: -- None</p>		
<p>Part VII - CURVES 23. The depth curves have been inspected before inking. Remarks Required: -- By whom was the penciled curves inspected.</p>			<p>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</p>		
<p>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</p>			<p>33. The bottom characteristics are adequately shown. Remarks Required: -- None</p>		
<p>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.</p>			<p>Part XI - NOTES TO THE REVIEWER 34. Unresolved discrepancies and questionable soundings.</p>		
<p>Verified by</p>			<p>35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.</p>		
			<p>36. Supplemental information.</p>		
<p>Date</p>					



RECORD OF APPLICATION TO CHARTS

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO. H-8655

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
9400	11/4/66	Frank Pavlot/MR	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>See L-1394/66 for clearance to chart selected soundings on 9400 - MR</i>
9402	3-21-68	H. Raddenz	Full Part Before After Verification Review Inspection Signed Via Drawing No. <i>part appl'd thru ckt. 9452 and part appl'd directly from sheet</i>
9452	1-16-68	Charles S. Fisher	Full Part Before After Verification Review Inspection Signed Via Drawing No.
9402	5/73	Thomas Traufeldt	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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