8656



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AUTHORITY Ser 1337/N3.D

DATE 12-16-75 BY BURGE

Diag. Cht. No. 9400.

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Combined Operations

Field No. SU-100-4-62 Office No. H-8656

LOCALITY

State Alaska

General locality Chukchi Sea

Locality Northern Part

1962

CHIEF OF PARTY

W. R. Porter

LIBRARY & ARCHIVES

APR 1-1964

DATE

USCOMM-DC 5087

URSUANT TO DOC SYSTEMATIC REVIEW UNDELINES AS DESCRIBED IN SECTION 3.3(a), EXECUTIVE ORDER 12356.

Cht 9400 9402

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-8656 Field No. SU-100-4-62

State
Chulrahi Soo
General locality Chukeni Sea Northwest of Ley Cape Locality From Lat. 70-35! N to 71-40! N and from Long. 164-20 to 166-40
Scale 100,000 Date of survey 18 Aug. 62 14 Sept. 62
Instructions dated Original 9 May 1961 ammended 2 May 1962.
Vessel SURVEYOR
Chief of party WILBUR R. PORTER
Surveyed by Ships Personnel
Soundings taken by fathometer, graphic recorder, hand lead, wire
Fathograms scaled by Ships Personnel
Fathograms checked by Ships Personnel
Protracted by LTJG J. COLLINS
Soundings penciled byLTJG_JCOLLINS
Soundings in fathoms feet at MLW MLLW
REMARKS:

DESCRIPTIVE REPORT TO ACCOMPANY HYDROGRAPHIC SURVEY H-8656 FIELD NO. SU-100-4-62

USC&GSS SURVEYOR

CAPT W. R. PORTER, COMDG.

SCALE 1:100,000

1962

A. Project

This survey is part of Project OPR-420, the original instructions dated 9 May 61 with Supplemental Instructions dated 2 May 62.

B. Area Surveyed

This survey was conducted in an area roughly, ninety nautical miles northwest of Icy Cape, Alaska. The hydrography is bounded north and south by Latitude 71 - 40 N and 70 - 35 N and east and west by Longitudes 164 - 20 W and 166 - 40 W. The survey was conducted from 18 Aug 62 to 14 Sept 62. This survey makes no junctions with prior surveys.

C. Sounding Vessel

USC&GSS SURVEYOR

D. Sounding Equipment

The fathometers used were Raytheon Model DE-723, numbers 138, 144, and 147. The depths in which used varied from 13 to 26 fathoms. For a detailed description of depth corrections determination refer to Special Report "Correction to Echo Soundings".

E. Smooth Sheet

The smooth sheet projection was ruled in the Washington Office. Mylar overlays of the smooth sheet were drawn aboard the SURVEYOR and used as boat sheets.

The boat-smooth sheet method was not used, all positions being replotted by the smooth plotter. The smooth sheet distortion was too great to prick positions accurately.

F. Control

The horizontal control used for this survey was Raydist electronic positioning. Calibrations were obtained from three points fixes at the Raydist shore stations and by passing standard one-barrel buoys that had been previously positioned. For a detailed explanation see Special Report SU-20-62 "Project OPR-420, Raydist Calibrations Methods and Results". frequency 3280 Kc.

G. Shoreline

There is no shoreline on Sheet SU-100-4-62.

H. Crosslines

The persentage of crosslines run was 5.7% of the regular system. All crosslines checked within the allowable limits as specified in C&GS Publication 20-2.

I. Junctions

There are no junctions with prior surveys.

J. Comparison with Prior Surveys

There were no items on the presurvey review for Sheet SU-100-4-62. There are no contemporary surveys in this area.

K. Comparison with the Chart

Comparison was made with C&GS Chart 9402 (1st Edition May 8/50 Revised 4/11/55). All soundings on the chart within the sheet limits were compared, a list of which follows:

<u>LATITUDE</u>	LONGITUDE	CHARTED <u>DEPTH</u>	SMOOTH SHEET DEPTH
71-28.8 N	166-25.5 W	23 fms.	24 fms.
71-39.2	166-05.8	24 fms.	24 fms.
71-27.2	165-54.0	25 fms.	23 fms.
71-36.3	165-10.7	23 fms.	22 fms.
71-31.3	164-45.0	25 fms.	23 fms.
71-01.1	165-25.1	21 fms.	22 fms.
71-03.9	164+45.2	24 fms.	23 fms.
70-46.3	164-42. 9	24 fms.	18 fms.
70-39.2	164-41.8	24 fms.	24 fms.

It is recommended that the smooth sheet soundings be accepted as correct since this survey was a thorough modern hydrographic investigation. Special notice should be taken of the charted depth at Lat. 70-46.3 N, Long. 164-42.0 W of 24 fathoms. This charted sounding is positioned on a shoal found by the SURVEYOR.

A least depth of 13.7 fathoms was found at Lat. 70-57.7 N, Long. 164.46.5 W (Position 17H + 4 min.), after extensive investigation of the shoal area. The shoal extends from Lat. 70-57 N then north-westerly to Lat. 71-03, Long. 165-10 W, being roughly five miles in width. The twenty fathoms curve surrounding this shoal was drawn so as to leave 20 fathom soundings on its deep side. These soundings in all cases are 20 and some fraction of a fathom, this was done to give the twenty fathom curve a more natural delineation.

Add fractions to 20's during verification

L. Adequacy of Survey

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

M. Aids to Navigation

There are no fixed or floating aids to navigation within the limits of Sheet SU-100-4-62.

N. Statistics

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No. of Positions - - - - - - 2557
Miles Hydro - - - - - 2801.0
Sq. Miles Hydro - - - - 2109
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For statistics concerning Oceanography refer to Special Report SU-22-62 "Oceanographic Observations in the Chukchi Sea".

0. Miscellaneous

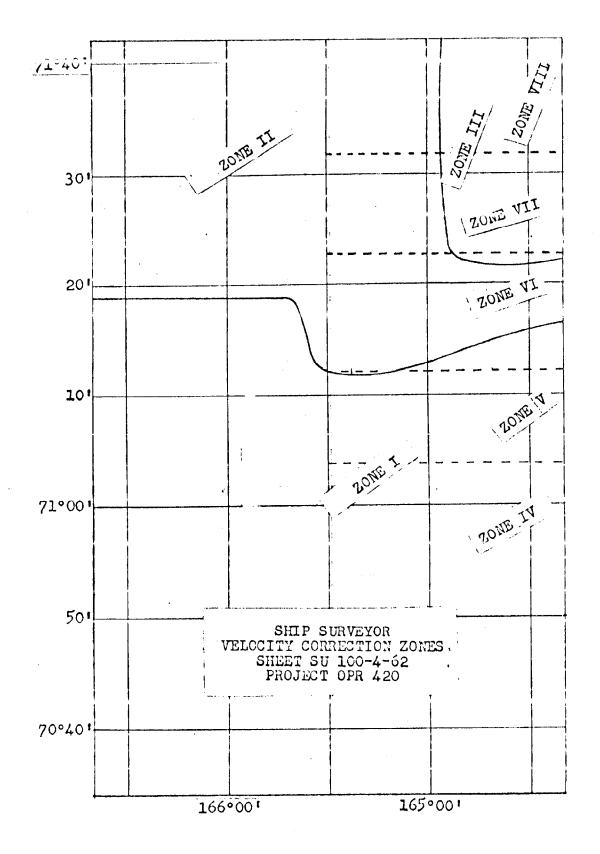
Refer to Special Report SU-24-62 "Extent and Duration of Floe Ice in the Chukchi Sea".

P. Recommendations

Refer to Section L of this report.

Q. Reference to Reports

REF. NO.	TITLE
SU-6-62 SU-20-62 SU-21-62 SU-22-62 SU-24-62 SU-25-62	Corrections to Echo Soundings Project OPR-420, Raydist Calibration Methods and Results Project OPR-420, Velocity Corrections Special Report No 146 Oceanographic Observations in the Chulchi Sea Extent and Duration of Floe Ice in the Chukchi Sea Installation of Raydist Stations USC&GSS SURVEYOR Season Report Chukchi Sea 1962



VELOCITY CORRECTIONS SHEET SU-100-4-62

	TableI	Table II	Table III
Depth	Zone I	Zone II	Zone III
0 - 8 8 - 13 13 - 18 18 - 23 23 - on	0 0 -0.1 -0.1 -0.2	0 0 -0.1 -0.2 -0.3	0 -0.1 -0.2 -0.3 -0.4

Pos	<u>i</u>	tions	Zone	Pos	<u>Lt:</u>	ions	Zone
1A		91C	<u>II</u> \	103H+1	_	170H	II\
91C+1	-	103C+2	I	170H+1	-	71J+1	<u>_</u> I \
104C	~	1990+2	<u> </u>	71J÷2	•	82 J +1	<u>II</u> \
200C	-	72D+1	I/\	82J+2	-	89J+1	I
72D+2	•••	96D	<u>II</u> ~\	89J+2	-	103J+1	<u>II</u> \
97D	-	86E	<u> </u>	103J+2	100	112J+2	<u>_</u>
86E+1	-	96E+2	II	113J	-	227J+1	IΙ\
9.7E	-	109E+2	IA	227J+2	-	2 43J+2	III
110E	_	118E+1	II	244J	-	247J	IIV
118E+2	-	139E+1	Ir	247J+1	-	29K	<u></u>
139E+2	-	143E	II 🗸	29K+1	-	32K+1	111
144E	-	234E	IV	32K+2	-	64K+1	/III
234E+1	-	247E+1	II/	64K+2	-	103K+2	II \
247E+2	-	28H+2	I	104K		116K	III
29H	-	41H	II &	116K+1	-	154K	II
41H+1	~	8 3 H	IX	155K	-	195K+1	III
83H+1	-	100H	$\underline{\mathtt{II}} \propto$	195K+2	_	198K+2	II
1017	-	103Н	I	199K	-	2 27K	1'

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.

VELOCITY CORRECTIONS

SHEET SU-100-4-62

POSITIONS	3		ZONE	2		POSI	<u>rions</u>		ZONE
1L 24L+2 29L+2 36L 47L+2 66L 72L+2 94L+2	24L+1 29L+1 35L+2 47L+1 65L+2 72L+1 94L+1	2	45678787	•		104L+2 117L 125L+2 132L 148L+2 155L+1 160L+1	1 1 1 1	16L 25L+1 31L+2 48L+1 55L 60L END	6-567654
		Zone	4	0.0	-	28.0	0.0	Table	4
		Zone	5	0.0 23.1			0.0 -0.1	11	5 .
·		Zone	6	0.0 15.1 25.1	_	25.0	0.0 -0.1 -0.2	,11	6
		Zone	7	13.1	_	13.0 18.0 26.0 ON	0.0 -0.1 -0.2 -0.3	į	7
		Zone	8	10.1 16.1 21.11	- -	10.0 16.0 21.0 24.0 ON	0.0 -0.1 -0.2 -0.3 -0.4	<i>,</i> 1	8

INDEX CORRECTIONS
SHIP SURVEYOR - OPR-420
1962

				DRAFT	DEPTH	SETTLEMENT	TOTAL INDEX
DATE	FROM	-T	TO	COR.	COR.	& SQUAT	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	ı		-0.2
8/6	0131	8/6 8/6	0320	0.0	ŀ		-0.3
8/6	032 1	8/6	2210	+0.1			-0.2
8/6	2211	8/7 8/7 8/8	1300	0.0	l]	-0.3
8/7	1301	8/7	1612	+0.1		-	-0.2
8/7	16 1 3	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	İ		-0.3
8/17	08 31	8/17	0930	-0.1			-0.4
8/17	0931	8/18	0459	0.0	j		-0.3
8/18	0500	8/18	1130	+0.1			-0.2
8/18	1131	8/24	0200	0.0			-O.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	l		-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	l		-0.4
8/28	080 1	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	140 1	9/15	2100	-0 .1	İ		-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	l		-0.3
9/16	1301	9/16	1930	-0.1	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	9/16 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

ABSTRACT OF RAYDIST CORRECTIONS

SHEET SU-100-4-62

REGISTRY NUMBER H-8656

POSITION FROM	NOS TO	CORRECT RAYICY	IONS RAYBINE
1A 1B 1C 1D 128D 130D 174D	156A 189B 150C 127D 129D 173D 178D 179D 182D	-2 -2 -2 -2 0 0 0	-1 -1 -1 -1 -3 -5 -7 0 +4
183D 2E	184D 1E 4E 5E	-1 -1 -1 -1	+17 +19 +20 +19
7E	6E 8E 9E	-1 -1 -1	+15 0 - 1
10E 15E 17E 284E 291E 1F 101F 187F 1G 1H 73H 1J 6J 9J	14E 16E 283E 290E 303E 100F 186F 226F 32G 72H 213H 5J 8J 17J	-1 -1 -1 -1 -1 0 0 +2 +2 +2 +2 +2 +2 +2 +2 +2	+3 +4 +7 +13 +17 -1 -2 -3 -6 -10 -9
21J 1K 1L 1M 10M 17M 1N 7N 221N 229N	279J 277K 182L 9M 16M 72M 6N 220N 228N	0 0 +3 +3 +5 +20 +3 +3 +2 +2	+1 +1 -8 -4 +8 +7 -4 -6 -5 -4

APPROVAL SHEET

This survey was executed under the direction and supervision of CAPT W.R. PORTER $\,$

The completed smooth sheet and accompanying records have been examined by me and are approved.

F. J. Bryant CAPT. USC&GS FORM 197 (3-16-55)

Rote Methodis Autos P.O. Guide of Has Or to Or or or to the forther or U.S. Light Liet **GEOGRAPHIC NAMES** Or loca wars Survey No. H-8656 On Ho. В c E Name on Survey Н K Chukchi Sez 3 5 6 7 8 9 10_ 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27

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

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

HYDROGRAPHIC SURVEY STATISTICS HYDROGRAPHIC SURVEY NO. 8656

RECORDS ACCOMPANYING SURVEY: To be completed when survey is registered. RECORD DESCRIPTION AMOUNT RECORD DESCRIPTION AMOUNT SMOOTH SHEET 1 BOAT SHEETS DESCRIPTIVE REPORT OVERLAYS 1 ABSTRACTS/ SOURCE DOCUMENTS DEPTH HORIZ, CONT. PRINTOUTS PUNCHED CARDS DESCRIPTION TAPE ROLLS RECORDS ENVELOPES 1-Fathograms CAHIERS VOLUMES 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 AMOUNTS PROCESSING ACTIVITY PRE-VERIFICATION REVIEW TQTALS VERIFICATION POSITIONS ON SHEET POSITIONS CHECKED POSITIONS REVISED DEPTH SOUNDINGS REVISED DEPTH SOUNDINGS ERRONEOUSLY SPACED SIGNALS ERRONEOUSLY PLOTTED OR TRANSFERRED TIME (MANHOURS) TOPOGRAPHIC DETAILS 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

FORM C&GS-946A (REV. 2-1-64) (PRES. BY HYDROGRAPHIC MANUAL, 6-94)

VERIFIER'S REPORT U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

VERIFIER'S REPORT HYDROGRAPHIC SURVEY, H=8656

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 1 - DESCRIPTIVE REPORT	CL	R	Part III - JUNCTIONS (Continued)	CL	R
Note: The verifier should first read the Descriptive Report for general information and problems.			10. Junctions with contemporary surveys were satisfactory except as follows:		
 The Descriptive Report was consulted, paragraphs checked if found satisfactory, and notations were made in soft black pencil regarding action taken. Remarks Required: None 			Remarks Required: Consider conditions after adjustments have been made; note adjustments made. Make special notes of Butt junctions and areas which are SUPERSEDED.		
 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 All reference to survey sheets mentioned in the Descriptive Report should include registry number and year. 			Port 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 12. Condition of sounding records was satisfactory		
Remarks Required: None Part II - SHORELINE AND SIGNALS 4. Source of shoreline signals Remarks Required: List all surveys			except as follows: Remarks Required: Mention deficiencies in completeness of notes or actions for the following:		
 o. 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. 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 			 (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? 		
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.			(k) references to adjacent features Port 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		
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 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			 14. The protracting and plotting of all unsatisfactory crossings were verified. Remarks Required: None 15. All detached positions locating critical soundings, rocks, buoys, breakers, obstructions, kelp, etc., were verified and the position numbers are legible. Remarks Required: None 		

		1		<u> </u>	T
Part V - PROTRACTING (Continued) 16. The protracting was satisfactory except as follows:	CL	R	Patt VIII - AIDS TO NAVIGATION 26. All fixed aids located together with those on the contemporary topographic sheets, have	CL	R
Remarks Required: Refers to protracting in general except for specific faults repeated often, or faults in control information, which required considerable replotting or adjustments.			been shown on the survey. Remarks Required: Conflicts of any nature listed.		
 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.		
Part VI - SOUNDINGS 18. All soundings are clear and legible, and critical soundings are a little larger than adjacent soundings. Remarks Required: None			Part IX - BOAT SHEET 28. The boat sheet was constantly compared with the smooth sheet with reference to notes, position of sounding lines and		
19. Sounding line crossings were satisfactory except as follows:			supplemental information. Remarks Required: None		
Remarks Required: Discuss adjustments.			29. Heights of rocks awash were correctly reduced and compared with topographic information.		
20. The spacing of soundings as recorded in the records was closely followed; Remarks Required: None			Remarks Required: Note excessive con- flicts with topographic information.		
 The scanning, reduction, spacing, plotting of questionable soundings have been verified. Remarks Required: None The smooth plotting of soundings was satis- 			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		
factory except as follows: Remarks Required: — Refer to legibility, errors in spacing, and errors in numbers - but not to errors in scanning.			31. Unnecessary pencil notes have been removed from the sheet. Remarks Required: None		
Part VII - CURVES 23. The depth curves have been inspected before inking. Remarks Required: By whom was the penciled curves inspected.			32. Degree, minute values and symbols have been checked; also electronic distance arcs have been properly identified and checked on the smooth sheet.		
24. The low-water line and delineation of shoal areas have been properly shown in accordance with the following:			Remarks Required: - None		
 a. From T-Sheet in dotted black lines b. From soundings in orange c. Approximate position of sketched curve is dashed orange 			33. The bottom characteristics are adequately shown. Remarks Required: None		
d. Approximate position of shoal area not sounded in black dashed			Part XI - NOTES TO THE REVIEWER		
Remarks Required: None			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			35. Notation of discrepancies with photogrammetric survey inserted in report of unreviewed photogrammetric survey or on copy.		
curves could not be drawn completely because of lack of soundings. For some inshore areas a general statement is sufficient.			36. Supplemental information,		
Verified by		-	Date		

U.S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

TIDE NOTE FOR HYDROGRAPHIC SHEET

July 17, 1964

Nautical Chart Division: R.H. Carstens

Plane of reference approved in 7 volumes of sounding records for

> HYDROGRAPHIC SHEET 8656

Chukchi Sea, Alaska Locality:

W.R. Porter Chief of Party:

mean lower low water Plane of reference is

Tide Station Used (Form C&GS-681): Point Hope and Icy Cape

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

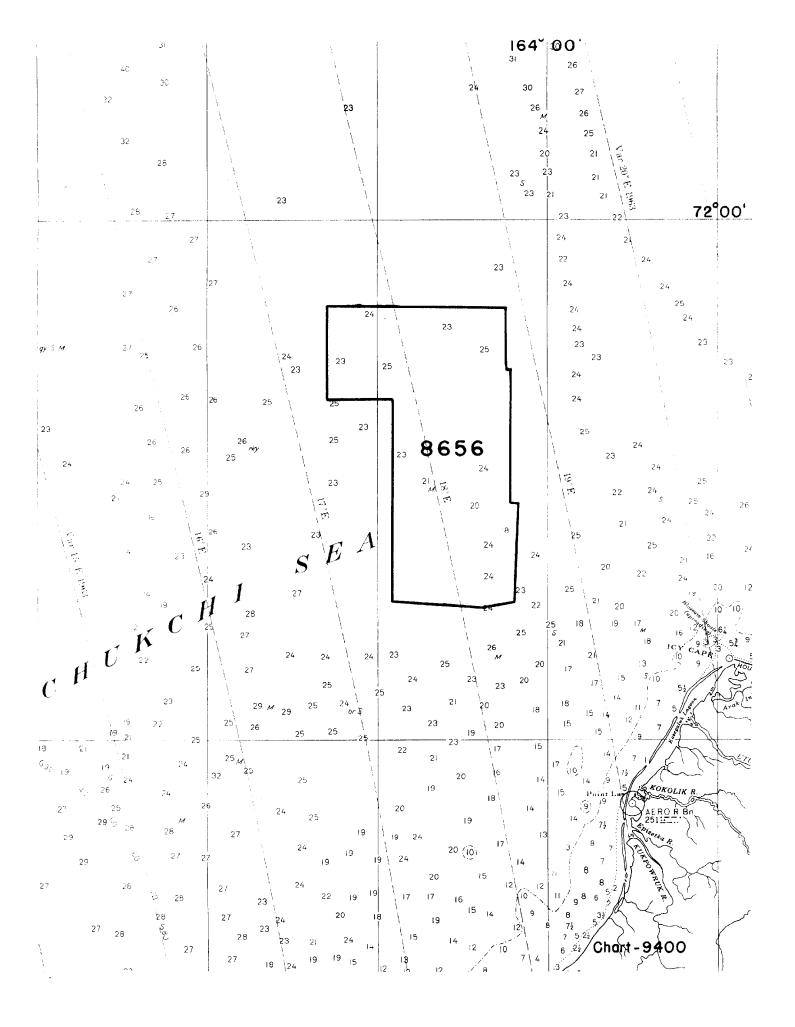
Point Hope

Icy Cape

0.5 ft. 0.6 ft.

Remarks

J. M. Symons



NAUTICAL CHART DIVISION

RECORD OF APPLICATION TO CHARTS

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
940D	11/4/46	Frank Paulet /mic	Part Before Werification Review Inspection Signed Via
7,00	17/100	7 7 3 10 13 10 7 7 10	Drawing No. See 1.1394/66 for clearning to chart
		•	selected soundings on 9400 - mg
4402	11-29-67	H. Rodden	Part Before Afrar Verification Review Inspection Signed Via
- 1 - 1 - 1			Drawing No. Added Hydro
		<u> </u>	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
	<u> </u>		Drawing No.
			Full Part Before After Verification Review Inspection Signed Via
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