# 8184 WITE DRAG

Diag. Cht. Nos. 1203-3 & 1204-36

Form 504

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

### **DESCRIPTIVE REPORT**

Type of Survey Wire Drag

Field NoHI-WA 1654W. Dyice No. H-8184 W.D.

LOCALITY

State Maine

General localityGulf of Maine

Locality Monhegan Island

19.54

CHIEF OF PARTY

E. B. Brown

LIBRARY & ARCHIVES

DATE April 21, 1961

USCOMM-DC 5087



### 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-8184 W.D.

Field No. Wa-H1-1654WD

State	MAINE
General locality	GULF OF MAINE
Locality	MONHEGAN ISLAND
Scale 1:10,000	Date of survey 15 thru 29 Sept. 1954
Instructions dated	6 FEB. 1953 & 9 MARCH 1954 /
Vessel	WAINWRIGHT & HILGARD
Chief of party	E.B. BROWN
Surveyed by E.B. I	ROWN, L.G. TAYLOR, G.L. SHORT & J.B. WATKINS, JR.
Soundings taken by fat	nometex, graphic recorder, hand lead, with
Fathograms scaled by	SHIP PERSONNEL
Fathograms checked by	SHIP PERSONNEL & NORFOLK PROCESSING OFFICE
DRAG STRIPS SHE	W.W. FEAZEL (NORFOLK PROCESSING OFFICE) - DIVIDED & INKED BY: W.W. FEAZEL -
Soundings in XXXXX	feet at MLW MXXXXX
REMARKS:	

U. S. GOVERNMENT PRINTING OFFICE 16-86520-1

### DESCRIPTIVE REPORT

To Accompany
Wire Drag Field Sheet No. HI-WA-1654 W.D.

Project CS-265 Coast of Maine, 1954 Scale 1:10,000

E. B. Brown\*Chief of Party

### A. PROJECT

Supplemental Instructions dated 6 February 1953 and 9 March 1954, ref. 22/MEK, S-2-W&H.

### B. PROJECT LIMITS AND DATES

The locality of the survey is Monhegan Island, Maine. The sheet covers the specific area from latitude 43° 48.0' to 43°44.5'N and longitude 69° 13'W to longitude 69°21'W. Field work commenced on 15 September 1954 and was completed on 29 September 1954.

Junction was made with contemporary survey (HI-WA-2253).

### C. VESSELS AND EQUIPMENT

The Ships WAINWRIGHT and HIIGARD acted as guide launch and end launch respectively. &GS Launch No. 171 was used throughout this survey as drag tender. Standard wire drag equipment was used at the start through the completion of the project. The Ship WAINWRIGHT was equipped with fathometer No. 58-S, the Ship HIIGARD with fathometer No. 138-SPX and launch 171 with fathometer No. 139-SPX.

### D. TIDES AND CURRENTS

Hourly heights for the reduction of soundings and effective depths were obtained from the portable automatic tide gages at Port Clyde and Monhegan Island, Maine.

On letter "A" day records from the Port Clyde tide gage were used with a (-)0.2foot correction applied to the high water. Records from the Monhegan Island gage were used for all other work accomplished on the sheet.

There were no current stations observed.

### E. SMOOTH SHEET

was and plotted To be prepared by the Norfolk Processing Office.

### F. CONTROL STATIONS

Nine control stations used for control of the wire drag were natural objects such as lighthouses, towers, day beacons and houses previously located by aerial photogrammetry. Fourteen signals were located by photogrammetric means by the 1954 photo support party from topographic map No. 11135-S(450ne 5) signal (JIM) is a rock awash and was plotted on the boat sheet from a position scaled from hydrographic sheet No. H-6992 (1144) No other position of this rock was available. 

JIM not reposition

sheet T-11135 S. Shown as hydrographic signal an smooth sheet of present survey.

See list

of signals

Norfolk Processing

Office.

prepared by

### H. SOUNDINGS AND DRAG TESTS

Soundings were obtained using the 808 fathometer. The wire drag tests were made using a graduated iron pipe suspended from a small float by upright wire. The pipe was coated with white lead to determine the point of contact with the ground wire.

### I. CONTROL OF WIRE DRAG

Standard dual control methods were used to control the wire drag. Sextant fixes were taken every three (3) minutes as a general rule, with a cut to the end buoy and opposite vessel immediately after the fix. The cuts are recorded as plus (/) if the object was clockwise and minus (-) if counterclockwise from the signal. The first cut is to the end buoy and the second cut to the opposite vessel unless otherwise noted.

The distance from the center of the wheelhouse to the end buoy was 74 meters with a 200 foot towline, 104 meters with a 300' towline and 134 meters with a 400' towline. The distances were measured on the pier with the ship alongside. The 74 meter towline was used in restricted and shoal waters. The 104 and 134 meter towlines were used in open and deep waters.

### ADEQUACY OF SURVEY

This survey is considered adequate and no further field work is considered necessary.

### COMPARISON WITH PREVIOUS SURVEYS

In general this survey is in good agreement with the previous hydrographic survey of the area and with Chart No. 313. The following listed hangs are specific instances in which there is disagreement. Hang numbers refer to the hang data sheet, Attachment No. 7 of this report.

### PREVIOUS SURVEY NO. H-6992(1944)

See Addardum -This drag hung at effective 52 feet in known depths of 117 feet. A tender investigation was made and a reduced sounding of 40 feet obtained. This was the shoalest sounding obtained. On letter "B" day position 51 to 59 the towline of the ship HIIGARD caught on this same pinnacle and snapped. At this time the drag was set at effective 46 feet. The hang was cleared at effective 38 feet position 20 to 26C. The previous survey has extremely wide line spacing and shows definite indications of a possible shoal. No hydrographic development was accomplished on the previous survey. This is a lesser depth than charted charted thus and it is recommended it be charted as swept clear at 38'feet, on Cht. 313 Reference is made to chart letter of 5 November 1954, HI-WA. 11 5 Ed. Rey. (C4991,1954)

Hang No. 2 The drag hung at effective 29.7 feet in known depths of 33 feet. The Ship WAINWRIGHT accomplished drift sounding over Lat. 43.4682 the area and obtained a reduced sounding of 30 feet. This Long. 69 19.882 hang was cleared at effective 29 feet. The previous survey shows a lack of development over a shoal indication and is considered inadequate. It is recommended this be charted at 29 feet. See chart letter of 5 November 1954 HI-WA (CL 99/19/4) 1281

See Par. e (1.) Review

8/10/64

rejected.

As per the instructions on the preliminary review for this project an investigation of the charted 25-foot sounding at latitude 43° 45.90', longitude 69°19.81' was made. The drift sounding produced nothing shoaler than 25 feet reduced. This so the least depth. See chart letter of 5 November 1954 HI-WA. (991, 1954)

The least depth desired on the charted 23-foot sounding at latitude 43° 45.6', longitude 69° 18.5' was obtained by clearing it with the wire drag at effective 20 feet. This is considered to be adequate. Drift sounding was not possible because of weather and strong tidal currents in the area.

At Latitude 43° 46.57', longitude 69° 18.80' a wire drag investigation was made over the charted 21 foot sounding as per instructions on the preliminary review. This shoal was cleared at effective 17% feet. Drift sounding by the Ship HIIGARD was accomplished over the area but nothing shoaler than 25.5 feet was found. This investigation is considered adequate and the 21-foot sounding is considered good.

### O. COAST PILOT INFORMATION

See special report, Coast Pilot Information project CS-265 submitted under separate cover.

### P. AIDS TO NAVIGATION

See attachment 4 of this report.

### Q. LANDMARKS FOR CHARTS

No new landmarks for charts are recommended for the area covered by this survey.

### U. FATHOMETER CORRECTIONS

Fathometer No. 58-S was used on the Ship WAINWRIGHT throughout the field season. Three bar checks were obtained during this period. An "A" to "B" scale comparison was taken on the first and third bar check and the mean value for correction to the "A" scale obtained. The value thus determined was (-) 0.87 feet to be applied to "B" scale readings. The value actually applied was (-) 1.0 feet in accordance with paragraph 822 of the Hydrographic Manual. A very definite

change in corrections was noted between the first bar check and the latter two bar checks. After study of previous conditions of the same general locality it was decided best to use the first bar check for all corrections in the period April through May. The latter two bar checks were found to be in reasonable agreement and corrective values were meaned. Curves were plotted of Correction vs Depth, corrections to be applied to soundings were then scaled from the curves in accordance with paragraph 822 of the Hydrographic Manual. All bar checks for the Ship WAINWRIGHT were referred to a 2.0 foot initial and index corrections were applied when necessary.

On the Ship HIIGARD fathometer No. 139 SPX was used through the period 12 May and No. 138 SPX for the remainder of the season. One bar check was made while No. 139 SPX was in use and a curve plotted as explained in above paragraph. The corrections to be applied were determined in the same manner as stated above. No "A" to "B" scale comparison was made while this fathometer was in use aboard the HILGARD but a value of (1) 2.38 feet was determined from comparisons made when the fathometer was installed in Launch No. 171. This type of error is inherent in the machine and will remain constant in either vessel. The actual correction applied was  $(\neq)$  2.5 feet in accordance with paragraph 822 of the Hydrographic Manual. During the period while fathometer No. 138 SPX was in use two bar checks were made. However the latter bar check was considered to be very poor and was rejected. A curve was plotted as explained above and corrections thus determined and applied. All checks were referred to a 2.0 ft. initial.

An "A" to "B" scale comparison was made with fathometer No. 138 and the value determined to be (-) 2.98 feet. The correction applied to all "B" scale readings was (-) 3.0 feet.

Fathometer No. 138 SPX was used in launch 171 to 12 May but no bar checks were made during this period. Because of lack of information the corrections as determined while this machine was aboard the HIIGARD were used referring the bar check to a zero initial.

During the remainder of the field season fathometer No. 139 SPX was used in Launch C&GS-171. Two bar checks were obtained and the mean value of the two used in plotting the valocity curve. An "A" to "B" scale comparison was made during each bar check and the mean value determined to be  $(\not-)$  2.38 feet as mentioned in paragraph two (2) above. A correction of  $(\not-)$  2.5 feet was applied to all "B" scale readings.

The effective radius of the stylus arms was measured on all fathometers and found to be within the proper limits.

See attachment 5 for abstract of bar checks and attachment 6 for abstract of fathometer corrections.

### Z. TABULATION OF APPLICABLE DATA

- Attachment: 1. List of Signals
  - 2. Tidal Note
  - 3. Statistics
  - 4. Aids to Navigation
    5. Abstract of Bar checks
  - 6. Abstract of Fathometer Corrections
  - 7. Hang Data Sheet

Submitted,

John B. Watkins, Jr. Lieutenant (j.g.), C&GS

APPROVED AND FORWARDED

Lorne G. Taylor LCDR, USC&GS

Chief of Party

JPR/rog

### ATTACHMENT 1

### Note:

LIST OF SIGNALS

See correct list by N.P.O. Which follows.

NAME	SOURCE	NAME	SOURCE
DOG ELK GAG KEA LOP NAPU OX PIG RAD	Hydrographic Sheet No. H-6992 do do do do do do do do do (Mix)do	BOX CAT DON DOT EBB EEL FOX POT SAT TOP WET CAR TEAL WAT	From Topographic Manuscript T-11135 S do
NAME MON	SOURCE Monhegan Island, 1859	<u>name</u> Jim	SOURCE Hydrographic (See Sec. F)

### NORFOLK PROCESSING OFFICE LIST OF SIGNALS H-8184

### TRIANGULATION STATIONS

MON MONHEGAN LIGHT, 1859-1934

TOPOGRAPIC STATIONS

**SOURCE T-11135 S** 

Box Car Cat Don Dot Ebb Eel Fox Pot Rad Sat

Teal Top Wat Wet

SOURCE H-6992 (1944)

Dog Elk Gag Kea Lop Napu Ox Pig

COMPILATION FEATURES

H-6992 SOURCE T-11155

Jim

Hydrographic location

### TIDAL NOTE

Portable automatic tide gages were established and maintained by the Ship GILBERT at Port Clyde, Maine, latitude 43° 55.4', longitude 69° 15.6' and by the Ship STIRNI at Monhegan Island, Maine, latitude 43° 45.9', longitude 69° 19.32.

Height of Man Low Water above the zero of the tide staff was 3.5 and 4.5 feet respectively.

Hourly heights were scaled from the marigrams by the personnel of the Ships GILBERT and STIRNI. All times noted on the Port Clyde Marigrams are Eastern Standard Time while times noted on the Monhegan Island marigrams are Eastern Daylight Saving Time.

Records from the Monhegan Island gage were used without correction. Records from the Port Clyde gage have a -0.2 foot correction applied to the high water.

### ATTACHMENT #3

### STATISTICS

VOLUME	DATE	DAY	POSITION	STAT. MILES
1	9/15/54	. 🛦	36	2.7
1	9/27/54	В	72	4.5
1	9/29/54	c	66	4.8
		TOTALS	174	12.0

### ATTACHMENT #4

## AIDS TO NAVIGATION - See correct N.P.O. list Which follows.

NAME	POSITION	DEPTH	LOCATION	DATE
Duck Rock Bell Buoy #7	43°46.76' 69 <b>°</b> 20.05'	11.5 fms	Vel. 1 P. 12 HIIGARD	9/15/54
Sunken Duck Reck Can Buoy #5	43 <sup>0</sup> 46.78' 69 <sup>0</sup> 19.62'	38.01	Vol. 1 P. 9 WAINWRIGHT	9/15/54

The position of these aids, as charted on Chart No. 313 are in agreement with the locations as obtained during this survey.

# NORFOLK PROCESSING OFFICE FLOATING AIDS TO NAVIGATION H-8184

BUOY	LATITUDE	LONGITUDE	DEPTH	Pos. No.	DATE
Monhegan I. Gong Buoy	43- <i>6</i> 9.90	69-18.80	-	51-52B	9/27/54 /
Sunken Duck Rock Buoy 5	46 <b>.7</b> 8/	19.62′	37	3a	9/15/54 ′
Duck Rocks Bell Buoy 7	46 <b>.</b> 77′	20.0ø	691′	2a ′	9/15/54

IAUNCH #171 EATH, 139 SPX 1 6/3/54 0.0 0.0 2 7/20/54 40.20 40.1 Mean of 1&2 40.10 40.0	2 6/3/54 3 7/20/54 3	HIIGARD FATH.  1 4/19/54  FATH.	3 7/20/54 Mean of 2&3	WAINWRIGHT FATH. 58-S 1 4/19/54 0.0 2 6/3/54 40.50	BAR CHECK NO. DATE
EATH. 139 0.0 \$0.20 \$0.10	0.0	139 SP 40.70	\$0.15 \$0.32	.0.0 0.0 40.50	10
0.0 60.08	0.0 0.0 0.0 0.0	(0.0) /0.25 (-0.30) 0.0		0.0 40.40	15
0.05	0.40)	initial \$\frac{1}{2}0.25\$ initial	0.0 \$0.15	2.0' initial .0 -0.1	20 <b>►</b>
0.0 -0.10 \$0.10 \$0.05 \$0.05 -0.02	0.0 0.0	(-0.30)	10.08 10.08 10.08 10.08	10.20 10.25	SCALE 25
6.05 6.05 70.05	0.0	,	%.08 0.10	-0.4 \$0.25	30
0.0	0.0	<b>40.15</b>	0.00 or.0-	9.04 8.0-	35
-0.45 0.0 -0.22	0.0	<b>6.15</b>	-0.15 40.05	-1.2 40.25	<b>₽</b>
0.0	-0.0	2 00	0.0	-1.1 40.20	45
-0.15	0.0	0.0	-0.20 -0.18	-1.4	50
/ Mean B to	Mean B to A Correction (Bar Check taken in fathoms)	•	(-0.10) -0.85 -0.60 (-0.20)	L	B SCALE PHASE CORRECTION B TO A SCALE 35 40 45 50
∱1.85 ∱3.0	B to A	<u>.</u>	0.85 A cor	8	B SCALE ORRECTION 40
\$1.85	Correct	o R	-0.60	1.0	ON B TO
#1.85 #2.15 #1.7 #3.0 #2.8 #2.8 Mean B to A correction is (#)2.38	Mean B to A Correction (-)2.98' Check taken in fathoms)	13 30	-0.10) -0.85 -0.60 (-0.20)  Mean B te A correction is (-)0.87'	7.1	A SCALE 50 55

( ) values indicated thus have been rejected

### ATTACHMENT 6

### FATHOMETER CORRECTIONS

Launch 171 Fathometer No. 139 SPX - Initial set at 0.0 feet

A RANG		B RANGE	.50
DEPTH	CORRECTION	DEPTH CO	DRRECTION
0- 44 1	0.01	351 - 441	0.0
45' - 50' Ran	-0.5 ge correction B to	45' - 90' A use (/)2.5'	-0.51
Launch 171	Fathometer No. 138	SPX - Initial	set at 0.0 feet
0 - 301	0.0	351 - 441	-0.51
31! - 44!	-0.51	451 - 551	-1.0'
45' - 50'	-1.01	561 - 641	-1.51
		65' - 73'	-2.01
Rar	ige correction B to		-2.51

Ship HILGARD Fathometer No. 139-SPX - Initial set at 2.0 feet

A RANG	CORRECTION	B RANGE <u>DEPTH</u> CO	RRECTION
0 - 21.51	<b>≠0.5</b> 1	351 - 901	0.0
221 - 501 Ran	0.0 ge correction l	3 to A use (/)2.51	
Ship HILGAR	D Fathometer No	o. 138-SPX - Initia	1 set at 2.0'
0 - 301	0.01	351 - 441	-0.51
31' - 44'	-0.51	451 - 551	-1.01
45' - 50'	-1.0'	561 - 641	-1.51
		651 - 731	-2.01
Ran	ge correction l	74' - on 3 to A use (-) 3.0'	-2.51

(Continued)

### ATTACHMENT 6 Continued

Ship HILGARD Fathometer No. 138 SPX - Initial set at 0.33 fms.

### A RANGE CORRECTION

0 - 13 fms. 0.0 fms.

13 - on -0.50 fms.

\* Ship WAINWRIGHT Fathometer No. 58-S, Initial set at 2.0'

	A RANGE DEPTH CO	PRECTION	B RANG DEPTH	E CORRECTION
	0 = 24	0.01	351 - 451	-1.0'
	251 - 341	-0.51	461 - 591	-1.51
	351 - 461	-1.01	601 - 741	-2.01
	47' - 50' Range	-1.5' correction B to	75' - 90' A use (-) 1	-2.5 <sup>1</sup>
H	0 - 131	<b>≠0.5</b> ¹	35' - 64'	0.01
	14' - 50'	0.0' correction B to	65' - 90' A use (-) 1	-0.51

<sup>\*</sup> Period of April through May)

<sup>\*\*</sup> Period of June through October)

# HANG DATA

2. 43°46.83°, 69°19.82°	1. 43°46.36° 69°19.36°40	Latitude & Longitude
331	117,	General Depth
29.5	22	Min. Hang Feet
29.8′ 360 to 480	*31A to 34A	Pesition Na.
29.0°	381 ×	Max'm Clear
34B to 50B	20C to 26C	Position No.
29'	401	Fath. Sdgs. Ft.
See Section L of this report	See Section L of this report	Remarks

### NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

WIRE DRAG SURVEY H-8184 (Wa-Hi-1654WD)

### GENERAL

Pertinent hang data have been flagged on the smooth sheet in pencil. inked during rerification.

All drag strips were plotted on overlays which are being forwarded with the smooth sheet. These overlays were used to check / agreement of effective depths against the latest hydrographic surveys. They also contain notes by the smooth plotter explaining procedures used to resolve some of the problems encountered.

### DISCREPANCIES

Line 31 thru 34A is being submitted on an overlay. It was not smooth plotted as it is not considered effective drag work. The drag was apparently aground due to sag at the beginning of the line. The 40 foot sounding, obtained by the Tender in the same area, was smooth plotted; how-ever, the fathogram confirming this shoal could not be found.

Detached position 4a (Tender), could not be plotted. >

Norfolk, Va. 18 April 1961

Respectfully submitted,

Hugh L. Proffitt

Cartographer

FORM 197 (3-16-55)

1

GEOGRAPHIC NAMEŞ Survey No. H-81	.84 W.	Der 1995	of the or	S. Hed.	of part of the par	Or tocal way	Carde of	ASO HERSIN	N. S. Jight	š
Name on Survey	A of	B B	C 50.\0	D	o Roy	or F	;° / G	ABOTU H	\\ \K_	
Duck Rocks	/									1
Manana Island	<u> </u>									2
Duct Rocks Manana Island Monhegan Island	-		ļ	ļ		ļ				3
		<u> </u>	ļ		ļ					4
		ļ				ļ				5
	ļ					7	\	2		6
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RHC

### TIDE NOTE FOR HYDROGRAPHIC SHEET

11 May 1961

Division of Charts:

R . H. Carstens

Plane of reference approved in 4 volumes of sounding records for

HYDROGRAPHIC SHEET

8184

Monhegan Island, Gulf of Maine

Chief of Party: E. E. Brown (1954) Plane of reference is mean low water, reading 4.5 ft. on tide staff at Mon 14.9 ft. below B. M. 1 (1943) Monhegan Island

Height of Mean high water above plane of reference is 8.8 FT.

Condition of records satisfactory except as noted below:

But W. Wlcox .Chief. Tides & Currents Branch

### Hydrographic Surveys (Chart Division)

## HYDROGRAPHIC SURVEY NO. .8184.W.D.

Records accompanying survey:	Smooth s	heets .1	;
boat sheets; sounding vols. 2;	wire dra	g vols	;
Descriptive Reports; graphic re	corder er	velopes	;
special reports, etc.1-A. & D. Sheet; 1-Re	ll, Pleti	ing Overlays	<b>,</b>
9-Sheets. Drag Set Data; 1-Film-Pesitive No. 1-183 & 1-Air-Phete, No. 1-184.	T-11135	(S); 1-Air-Phe	te.
The following statistics will be submitted rapher's report on the sheet:	with the	cartog-	
Number of positions on sheet		.174.	
Number of positions checked		52.	
Number of positions revised		0	
Number of soundings revised (refers to depth only)			
Number of soundings erroneously spaced		0	
Number of signals erroneously plotted or transferred		0	·
Topographic details	Time	2 hrs	
Junctions	Time	O hrs.	
Verification of soundings from graphic record	Time	1/2 hr.	
Special adjustments	Time	ohr.	
Verification by Dale E. Watth of Fotal ti	me 29.5	hrs. 9/19/6	4
Reviewed by . Dale E. Wattrook Ti	me .17.0	hrs. 8/19/6	4

### OFFICE OF CARTOGRAPHY

### REVIEW SECTION -- NAUTICAL CHART DIVISION

### REVIEW OF HYDROGRAPHIC SURVEY

### REGISTRY NO. H-8184 W.D.

FIELD NO. WA-HI-1654 W.D.

Maine, Gulf of Maine, Monhegan Island

SURVEYED: 808 Depth Recorder

CONTROL: Sextant fixes on

shore signals

### PROJECT NO. CS-265

Chief of PartyE.	В.	Brown
Surveyed byE.	В.	Brown
		Taylor
G.	L.	Short
J.	В.	Watkins, Jr.
Protracted byW.	W.	Feaze1
Soundings Plotted byW.	W.	Feaze1
Verified and Inked byD.	E.	Westbrook
Reviewed byD.	E.	Westbrook
Inspected byI.	M.	Zeskind

8/19/64

### A. Purpose of the Survey

The purpose of the survey was to make certain that all dangers to navigation are charted, and that the charted depths on these features are the least depths. Dangers found on this survey and those previously charted were to have been cleared within 2 feet of the least depth.

### B. Shoreline and Control

The shoreline originates with reviewed Photogrammetric Manuscript T-11135S (1953-55).

The control is adequately described in the Descriptive Report.

### C. Junctions with Wire-Drag Surveys

An adequate junction was effected with H-8465 W.D. (1953-55) on the north and south. No other wire-drag surveys join the present survey.

### D. Comparison with Hydrographic Surveys

H-6861 (1:20,000) 1943, 44 H-6992 (1:10,000) 1944

The effective depths shown on the present wire-drag survey do not conflict with the depths on the above listed surveys.

### E. Comparison with Chart 313, 11th ED., Rev. 8/10/64

### 1. Hydrography

The charted hydrography originates with the above listed hydrographic surveys supplemented by a few soundings from the boat sheet of the present wire-drag survey. There are no conflicts with the charted hydrography.

Attention is directed to the following:

The 24-ft. sounding charted in Lat. 43°45.90', Long. 69° 19.81' originates with the boat sheet information of the present wire-drag survey Chart Letter 991 (54). The sounding was revised to 25-ft. on the smooth sheet. The 24-ft. sounding should be deleted and should be replaced by the 25-ft. sounding originally charted from H-6992 (1944).

The cleared depth of 29-ft. charted in Lat. 43°46.82', Long. 69°19.85' originates with boat sheet information of the present wire-drag survey Chart Letter 991/54. This clearance was revised during verification to 28-ft. The cleared depth of 29-ft. should be changed to a cleared depth of 28-ft. to bring the chart into agreement with the present survey.

### 2. Aids to Navigation

The present survey position of Gong buoy "3" is in substantial agreement with its charted position, while the other floating aids have been relocated and renumbered subsequent to the present survey.

The aids adequately mark the features intended.

### F. Condition of the Survey

### 1. Field Work

The field work was adequately accomplished except as stated in paragraph g below.

### 2. Records

The information recorded in the sounding volumes is adequate.

### 3. Descriptive Report

The Descriptive Report is complete and comprehensive.

### 4. Field Plotting

The field plotting was satisfactory, except that in one strip where the "2 1/2% rule" was applied, the effective depths, instead of the upright lengths, were used to determine the maximum effective depth of the deeper adjoining section.

### G. Compliance with Project Instructions

The survey does not adequately comply with the Project Instructions because three important shoals within the area of the present survey were not cleared within 2 feet of their least depths as follows:

Charted Depth	Location	Cleared by
ft.	Latitude Longitude	ft
23	43°45.60' 69°18.53'	20
25	43°45.90' 69°19.81'	20
21	43°46.57' 69°18.80'	17

### H-8184 W. D. - 4

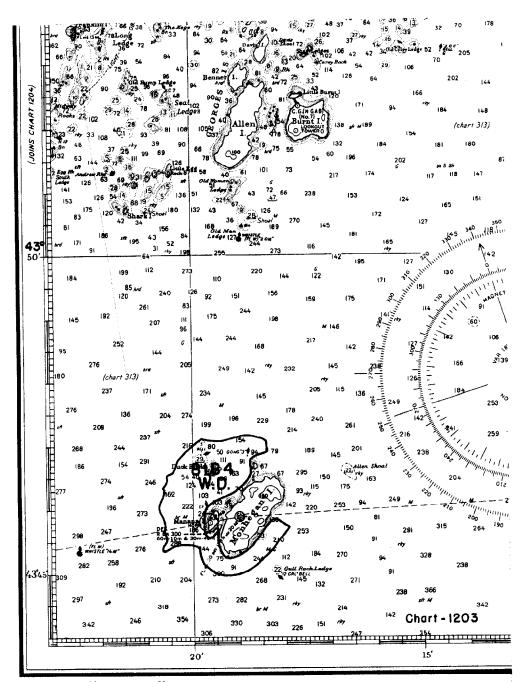
#### н. Additional Field Work Recommended

No additional field work is recommended.

Examined and Approved:

Assistant Director, Office of

Hydrography and Oceanography



2nd Ed., June 24/ 36: Revised 6/20/60

1203 PRICE \$1.00

### NAUTICAL CHARTS BRANCH

SURVEY NO. H-8184 W.D.

### Record of Application to Charts

Review 8-19-64

DATE	CHART	CARTOGRAPHER	REMARKS
5/11/61	1203	W. P. Shook ?	Partly Applied Before Asser Verification and Review
5/2/61	3/3	W.P. Short S	
11/1/61	1204	R.E. Ellino	Before Atten Verification and Review Parkly defluid  the old 1203 deg 18. Added one clearance depth.
			Thru olit 1203 dry 18. added one obsasake depth.
5-8-63	1203 Recon	m. Roger	Before Man Verification and Review
		0	
11-5-64	1203	h.j. Keeler	Partly spad.  Before After Verification and Review before inspection
			Lun soundisse revised
2/10/44	1264	John P. Wei	Before After Verification and Review Fully Applied
9/20/66	1203	O. Svendsen	Before After Verification and Review Fully applied
11/6/67	3/3	max mall	Batter After Verification and Review Fully gyplish
			Before After Verification and Review
ļ			Before After Verification and Review
			Before After Verification and Review
<b> </b>	<b>_</b>		
			:

M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.