# 8180 WIRE DRAG

Diag. Cht. No. 1204-3.

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

### DESCRIPTIVE REPORT

Type of Survey WIRE DRAG

Field No. WA-HI-1153 Office No. H-8180 W.D.

LOCALITY

State Maine

General locality Damariscotta & Johns
Rivers
Locality Northern Parts

19# ..53

CHIEF OF PARTY

E. B. Brown

LIBRARY & ARCHIVES

DATE September 15, 1955

B-1870-1 (1)

8180 Wire DRAG

#### 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-8180WD

Field No. Wa-Hi-1153

State			_MAINE				
General locality		<i>&gt;</i> 1	OHNO-BAY				
Locality	(	DAMARISC	OTTA & JOE	INS RIVER	s) Northa	en Parts.	
Scale1:10	0.,000		Da	te of surve	y 19 May thru	11 Sept. 195	i3
Instructions dat	ed	6 Febru	ary 1953				
Vessel	WAI	nwr ight	& HILGARD	•		<b></b>	
Chief of party		E.B. BR	OWN		•••••		
Surveyed by .E.	B. BROWN.	JOHN C.	TRIBBLE.	H.J. SEA	BORG & R.A. I	PARKER	
Soundings taker	by <b>fathana</b>	<b>Ka</b> r, graph	ic recorder, l	and lead,	<b>TIFE</b>		
Fathograms sca	led by						
Fathograms che	ecked by						
Protracted by .		A	KAUPA				
Soundings in						are depth	5
Remarks:					·	·	
						·	
***************************************							

#### DESCRIPTIVE REPORT

TO ACCOMPANY

WIRE DRAG FIELD SHEET NO. HI-WA 1153

PROJECT CS-265

COAST OF MAINE, 1953

SCALE: 1:10,000

#### A. PROJECT

The authority for this survey was contained in Supplemental Instructions, Project CS-265, Wire Drag, dated 6 February 1953, reference 22/MEK S-W&H.

#### B. SURVEY LIMITS AND DATES

The locality of the survey is the Damariscotta River and Johns River, Maine. The sheet covers the area between latitude 43°52'N and 44°00'N and longitude 69°30'W and 69°36'W. The beginning date of the survey was 19 May 1953 and ending date 11 September 1953.

Junction was made with contemporary wire drag survey HI-WA 1253 (#8181,/9) to the south.

#### C. VESSELS AND EQUIPMENT

The Ships WAINWRIGHT and HIIGARD were used as the guide launch and end launch respectively. USC&GS Launch No. 171 was used as the tender. During the period E day, 17 June through I day, 25 June Launch No. 171 was used as guide launch, a chartered lobster boat as end launch, and the WAINWRIGHT'S skiff as the tender. On M day, 26 June and N day, 29 June the WAINWRIGHT was used as guide launch, Launch No. 171 as end launch and the skiff as tender. Standard wire drag equipment was used. The WAINWRIGHT was equipped with 808 type fathometer No. 58S, the HIIGARD with 808-J type fathometer No. 139-SFX and launch 171 with 808 type fathometer No. 53.

#### D. TIDES AND CURRENTS

Tidal data for the reduction of soundings and effective drag depths were obtained from portable automatic tide gages, installed and maintained by this party and located at East Boothbay, Maine; Newcastle, Maine; Fort Point, Pemaquid, Maine.

No current stations were observed.

#### E. SMOOTH SHEET

Was
To be prepared by the Norfolk Office.

#### F. CONTROL STATIONS

Control stations used for this survey were recoverable topographic stations previously located by aerial photogrammetry. Two signals, POP and NEW, were located by hydrographic means by the personnel of this party. (See list of signals) Four signals, HOP, Rap, Fit, HUX, MID, and ODD were identified by this party on the aerial photographs and pricked directly from the film positive. (See list of signals)

#### H. SOUNDINGS & DRAG TESTS

Soundings were obtained with the 808 type fathometer. 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 methods of sextant control and wire drag plotting were used throughout the survey. Fixes were taken on both towing vessels. Cuts were taken to near buoy and other towing vessel and recorded in that order, as plus when object was right of signal and minus when left.

#### J. ADEQUACY OF SURVEY

The survey is considered adequate and no further wire drag investigations are considered necessary. The junction with contemporary wire drag survey HI-WA 1253 is considered satisfactory and no holidays exist. (H-3/8/1953)

### L: COMPARISON WITH PRIOR SURVEYS & CHARTS - DANGERS & SHOALS

In general this survey was in good agreement with the previous  $\mathcal{F}$ 4 Review hydrographic surveys of the area and with Chart 314. The following listed hangs are specific instances in which there is disagreement. Hang numbers refer to the Hang Data Sheet, Attachment No. 6 of this report.

### PREVIOUS SURVEY NO. H-6842 (1943)

Hang No. 13 - The 30-foot curve on both sides of the channel projects 30' curve has outward at this point. The drag was hung at both the N & F buoys and been extended on seems to indicate that the 30-foot curve should be drawn 30 meters a bith sides of channel to conform to this new data.

Hang No. 26 - There are known shoal areas on both sides of the channel H-6842 was reat this point, however, this hang is in an area of depth range 25 to yised to indicate a 42 feet. A detached position taken over the hang gave a depth of 16 narrow chan of the feet at latitude 43°58.02' longitude 69°34.47'. It was cleared at hetween the 22' effective depth of 15 feet. On the previous survey, H-6842, this pointshal on the west lies between two sounding lines of 60 meter spacing, however adjacent and the 16-22' shall soundings do not indicate a depth of this nature. It is considered that originating with this is a detached pinnacle to the immediate east of the charted 22-foot this survey on ledge in mid channel. It is recommended that this be charted as a 16-foot the east rock. The 30' curve on the east was moved som farther offshore to enclose the 16-12' shoal. The existing 22' shoal in midstream was extended 40 m Southword.

Hang No. 29 - Hung at effective depth of 18 feet, cleared at effective 17 feet. Prior survey shows a 19-foot sounding here on this shelf but line spacing is wide. It is recommended that a 17-foot sounding be charted here. (The smooth sheet must be examined carefully here to determine which is the maximum clearing strip, unable to determine from boat sheet.)

## PREVIOUS SURVEY NO. H-6843 (1943)

Hang No. 8 - This is a known shoal area. The relief is very 27'effective hang pronounced at the southern tip of the shoal but this survey plots on 24' sag from indicates that the shoal may extend a few meters farther in a H-6843. Cleared by 19'. southerly direction than shown on survey H 6843.

Hang No. 12 - Previous survey indicates a submerged ledge extending 30'curve extended from shore in the vicinity of this hang. This hang at effective farther off shore. depth of 25 feet, in charted depths of 27 to 28 feet was cleared at D.R.G effective depth of 22 feet. (LE to NE)

Hang No. 18 - This hang indicates lesser depths than charted. On the prior hydrographic survey a holiday exists at this location, very doubtful. Strip which is immediately outside the 30-foot curve. It is recommended not plotted that the 30-foot curve be drawn 25 meters farther south than its position on H-6843 at this point.

Hang No. 25 - This hang at effective depth of  $24\frac{1}{2}$  feet, occurred Not plotted Insufficient in the vicinity of a charted 31-foot pinnacle in general depths and uncertain information of 40 feet. The hang however indicates lesser depths. The shoal only 24 sounding was cleared at  $21\frac{1}{2}$  feet effective. On the prior survey a holiday plotted. Leavester exists just to the north of the shoal area and northeast of the cleared this area at hang.

Hang No. 32 - This hang is on a submerged ledge which extends NNW Detached shoot of a small island (signal FATE). Hang indicates less water than in 38'-48' of shown on sheet H-6843. Minimum hang is 26 feet effective with water maximum elearance of 24 feet effective. Hang falls outside of limits of drag whose eff. depth is 24 ft (29P).

Hang No. 33 - Previous hydrographic survey shows depths ranging from 22 to 36 feet in the near vicinity of this hang. There is a holiday in the previous survey at the point of hang but indications are that there may be shoaler depths. An 18-foot drag grounded momentarily on this shoal then immediately came free. It is recommended that this shoal be charted as 17 feet. (not cleared)

Hang No. 36 - Hung at 21 feet effective on known shoal of 24 feet. Indicates lesser depth than charted. Cleared at effective depth of 18 feet.

Hang No. 39 - This hang at 21 feet was on a charted 25-foot shoal. It was cleared at an effective 20 feet.

#### O. COAST PILOT INFORMATION

See special report, Coast Pilot Notes, submitted under separate 
cover.

### P. AIDS TO NAVIGATION

Reference is made to Attachment 4 of this report.

### Q. LANDMARKS FOR CHARTS

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

### Z. TABULATION OF APPLICABLE DATA

- ATTACHMENT: 1. List of Signals
  - 2. Tidal Note
  - 3. Statistics
  - 4. Aids to Navigation
  - 5. Fathometer Corrections .

6. Hang Data Sheet

Respectibly Submitted,

E. B. Brown, Comdr., USC&GS

Chief of Party

#### PROCESSING OFFICE LIST OF SIGNALS H-8180

TOPOG	RAPHIC SIGI	NALS		COMPIL	ATION T-5	991		
Віъ	H-6843		Ga.s	H-68	<b>4</b> 3		Quit	H-6843
Big	Ħ		Hug	Ħ			Rid	H
Dip	# .		Ice	n			Sag	11
Doe	. 11		Lip	Ħ			Sal	н
Eva.	Ħ		Mice	Ħ			Sie	n
Fed	n		Nut	Ħ			Ski	Ħ
Fox	11		Pad	Ħ			Wad	Ħ
Gag	Ħ		Pin	11			Yet	н
				COMPIL	ATION T-5	992		
Abel	H-6843		Hulk	H-68			Pike	H-6843
Ado	Ħ		Jib	tt			Pit	11
Aim	17		Jim.	11			Prop	11
Ant	Ħ		Just	11			Rear	Ħ
Barn	11		Kid	11			Rig	tt
But	11		Lop	11			Rom	rt
Cam	Ħ		Mane	11			Sack	11
Cast	II.		Max	11			Slug	H
Cup	n		Met	11			Sour	ti
Dock	n		Nay	11			Spat	Ħ
Fate	Ħ		Neo	ti			Tot	11
	17		Nip	Ħ			Ūρ	11
Fop	17		Oboe	11			Wag	11
Grin	**		Ohm	#1			Wasp	Ħ
Hod	11		P11	M			Yea	Ħ
Home Hope	tt		Pink				200	н
				COMPII	ATION T-	5993		
Act	H-6843		Jane	H-68	42		Nub	H-6842
Ale	H-6842		Jut	H-68			Odd	**
Blow	11 00 15		Ken	11	1		Pier	11
Bolt	11		Kit	H-68	42		Reef	11
Con	11		Leo				Red	11
Day	11		Lit	t			Sky	11
Dial	11		Log	11	1		So	11
Dope	11		Lop	H-68	845		Try	11
Gay	11		Mot	H-68			Web	Ħ
Hoe	11		Mule	1			Wet	11
пое			m(4.40				Yam	11
PHOTO	GRAMMETRIC	STATIO	ons					
Fit	T-5992	Hop	<b>T-</b> 5992	Hux	T-5992	Mid	T-5992	
Odd	T-5993	Rap	T-5992					

### HYDROGRAPHIC STATIONS

New E.L. Vol. 1, pg. 1 Pop E.L. Vol. 1, pg. 48

ATTACHMENT I

LIST OF SIGNALS - 1153

Film Positiv	re No. T-5992	No. T	-5991	No. T-	-5993
Signal Name	Number	Sig. Name	Number	Sig. Name	Number
ABEL	444	BIB	434	ACT	1036
ANT	676	BIG	353	ADO	1007
BARN	470	DIP	656	AIM	1005
BUT	678	DOE	432	ALE	1067
CAST	443	EVA	859	BLOW	968
	440	FCX	65 <b>8</b>	BOLT	966
DOCK		FED	860	CAM	1009
FATE	897	GAG	861	COM	981
FOP	703	GAS	850	DAY	1063
GRIN	401	HUG	853	DIAL	1071
HOD	683	ICE	851	DOPE	970
HOME	753	LIP	852	FIT	1013
HOP	Established 1953	MICE	766	GAY	927
HOPE	680	NUT	433	HCE	1051
HULK	454	PAD	652	JANE	977
HUX	Established 1953	PIN	438	JUT	955
JIB	670		359	KEN	1035
JIM	1015	QUIT B <b>TD</b>	651	KIT	977a
JUST	762	R <b>ID</b>	352	LEO	1053
KID	868	SAG	437	LIT	1069
MANE	754	SAL	431	LOG	930
$M\Lambda X$	672	SIC	348	LOP	99 <b>3</b>
MET	999	SKI	650	MOT	1060
$ ext{MID}$	Esta <b>hlis</b> hed 1953	WAD YET Processing	670	MULE	925
NAY	1000	XET.	64/6	NEO	1021
OBOE	450	.,76	2	NIP	1033
PIL	896	Processin,	150	NUB	932
PINK	764	1100	10	ODD I	Established 195
PIKE	448 3ee	1 519		OHM:	1022
PROP	765 <sub>L</sub>	, 3 1 0		PIER	984
REAR	760	•		PIT	1012
ROM	V 1-W			REEF	1061
SLUG	447			red RED	9 <b>83</b>
SOUR	757 -			RIG	1025
SPAT	758			SKY	1057
TOT	681			S0	921
WASP	755			TRY	9 <b>73</b>
YEA	661				913 987
÷ •				UP BLAC	1003
				WAG	1058
				WEB	926
				WET	
			•	$\mathbf{Y}\mathbf{A}\mathbf{M}$	963

### LIST OF SIGNALS (cont)

Signal	Source					
NEW	Hydrographic Location recorded End Launch record.	in	Vol.	1,	pag <b>e</b>	3
POP	Hydrographic location recorded End Launch record.	in	Vol.	1,	page	48

#### ATTACHMENT 2

#### TIDAL NOTE

Portable automatic tide gages were established and maintained by this party at; Fort Point, Pemaquid Beach, Johns Bay, Maine, Latitude 43°52.6' Longitude 69°31.5': East Boothbay, Maine, Latitude 43°51.9' Longitude 69°35.0': and Newcastle, Maine, Latitude 44°02.0' Longitude 69°32.2'. \* Falls outside 1.m. 13 H-8180

Height of Mean Low Water above the zero of the tide staff at these three gages was 3.4 feet, 2.7 feet and 2.5 feet respectively.

Hourly heights were scaled from the marigrams by the personnel of this party. All times noted on the marigrams are Eastern Daylight Savings Time while this time was in effect. (29 April to 27 September)

Records from the Pemaquid Beach, Johns Bay tide gage were used without correction for differences in time and height for the work in the Johns River. Records from the Newcastle tide gage were used without correction for time and height differences for the work in the Damariscotta River north of Latitude 43°58.00'. East Boothbay tide gage records were used without correction for time and height differences for all work south of Latitude 43°58.00' in the Damariscotta River.

### ATTACHMENT 3

### STATISTICS

VOLUME	DATE	DAY LETTER	NUMBER OF POSITIONS	STATUTE MILES
1	5/19/53	<b>A</b>	44	2.9
1	5/25/53	В	38	3.2
1	5/26/53	đ	40	3.2
2	5/27/53	D '	23	1.7
2	6/17/53	E	16	1.0
2	6/18/53	F	<u>3</u> 2	2.5
2	6/19/53	G	33	2.5
3	6/22/53	Н	44	3.4
. 3	6/23/53	J	51	2.4
3	6/24/53	. <b>K</b>	36	2.1
4	6/25/53	L	39	2.1
4	6/26/53	М	42	3.7
4	6/29/53	N	28	2.1
4 & 5	6/30/53	P	54	4.4
5	7/1/53	Q	25	1.5
5	7/6/53	R	39	3.0
5	7/7/53	S	33	2.2
5	9/11/53	T	8	1.1
	TOTA	ALS FOR SHEET	605	45.0

4 of 4 Hilgard 9-10-53 W

4

### FLOATING AIDS TO NAVIGATION Processing office List. H-8180 W.D.

BUOY	LAT.	LONG.	DEPTH	POS. NO.	DATE
Corvette Ledge Buoy 1	43-52.29	69-32.80	√ 16'	Wain. 14a	5-19-53
McFarlands Ledges Buoy 2	43-52.48	69-32.89	√ 35¹	Wain. 2 <u>A</u> a	5-19-53
Damariscotta River Buoy 9	43-53.00	69-35.01	~ 81°	Hilg. Vol. 4, pg. 20	7-10-53
Damariscotta River Buoy 10	43-53.22	69-34.96	✓ 47¹	Wain. lH'	6-22-53
Damariscotta River Buoy 11	43-55.90	69-35.15	√ <sub>521</sub>	Hilg. Vol. 4, pg.20	7-10-53
Damariscotta River Buoy 12	43-57.12	69-34.73	√ 35¹	Higg. Vol. 4, pg.20	7-10-53
Johns River Ledge Buoy 2	<b>43-53.68</b>	69-32.62	✓ 221	Wain. 1A Hilg. Vol. 4, pg. 21	5-19-53 9-11-53

#### ATTACHMENT 5

#### FATHOMETER CORRECTIONS

WAINWRIGHT - Fathometer 808 type, No. 58S (Initial set at 2.0 ft.)

A RAN	GE		a e	B RA	NGE
DEPTH	CORRECTION			DEPTH	CORRECTION
0 - 23	0.0	'		40.5	-0.5
24 - 39	-0.5			41 - 45	-1.0
40 -	-1.0			45.5	-1.5

HIIGARD - Fathometer 808-J type, No. 139-SPX

No bar check records

Launch 171 - Fathometer 808 type, No. 53 (Initial set at 0.5 ft.)

Fathometer correction for No. 53 in launch 171 is zero.

### ATTACHMENT 4

### AIDS TO NAVIGATION

Chart # 314

See Processing office.

Aist of Flooding

NAME	POSITION	DEPTH	LOCATION	DATE
Black Spar, S-1	43°52.28'N 69°32.80'W	161	WAINWRIGHT VOLUME 1	5/19/53
Red Spar, S-2	43°52.48'N 69°32.88'W	351	WAINWRIGHT VOLUME 1	5/19/53
Red Nun, N-10	43°53.22'N 69°34.95'W	541	WAINWRIGHT VOLUME 3	6/22/53
Red Nun, N-12	43 <sup>°</sup> 57.12'N 69 <sup>°</sup> 34.72'W	351	HILGARD VOLUME 4	7/10/53
Black Can, C-ll	43°55.89 N 69°35.14 W	521	HILGARD VOLUME 4	7/10/53
Black Can, C-9	43°53.00'N 69°35.00'W	811	HILGARD VOLUME 4	7/10/53
Red Spar, "S 2"	43°53.68'N	221	WAINWRIGHT	5/19/53
	69°32.62'W	,	VOLUME 1 HILGARD VOLUME 4	9/11/53

The positions of these aids, as charted on Chart No. 314, are in agreement with the locations as obtained during this survey.

#11 43°52.481 / 69°32.881 /	' #10 43°52•72' 69°32•33'	#9 43°52.501 69°33.251	#8 43°52,471 69°32,931	\ #7 43°52.52' 69°32.25'	46 43°52.36° / 69°32.95°	1 #5 43°52.72! 69°32.88!	1 #4 43°52.431 69°32.181	/ #3 43°52.68° 69°32.86°	/ #2 43°53.23° 69°32.76°	/ #1 43°53.16' 69°32.69'	Latitude Longitude	ATTACHENT
6-30	6-30	38	6-30	17–30	2-30	30-60	2-30	18	12-30	30-40	General Depth (Ft.)	6
1									-	1	Fath Sdg. (Ft.)	
(19NP)	31 NP	3011	27 .	(17NP)	18 /	30 <b>&lt;</b>	17ND	29 NP	8 * GNTE	(33NP)*	Min Hang (Ft.)	
20 to 23D 1	12-19D	7, to 11D	30 to 33C /	24 to 270 /	13 to 210	19 to 28B /	1 to 7B /	36 to 42A'	8 to 24A /	(2 to 7A) N.P.*	Position No.	HANG DATA
1			19,					ľ		31 ~	Maximum Clearance (Ft.)	
			20 to 23D 🗸				1	.   .		8-to-244 / (Plotted)	Position No.	
Apparently hung spartury 52"	ground wire while starting line. As.7-40 sect. schween buys 1-3 not plothed. Curered by 28 sheef depth pos. (-60.) Wrapped known shoal. Hungar 27 st 30-33 C	Drag hung at start of line, probably due to sag in	Hung on southern tip of known shoal (See section /	known shoal, N hung and	3		Wrapped known shoal.	section F.3 not plotted. Known shoal. 25ft pos. 26	inagging bettom.  *Hung-on ledge extending from shore * Faragging bottom	* Effective dragging doubtful.  Hung on ledge extending  from shore.	Remarks	Page 1

	#23 43°55.66.	/#22 43°53.41° / 69°34.90° 10–30 –	#21 43°53.24° 69°34.95° 6-30 -	V#20 43°55,501, 69°34,05° 30 -	#19 43°56.97° 30–40	- #18 43°57.281, NP 69°34.731 33	#17 43°58-62: 69°34-50: 22 • -	#16 43°57.871 / 6-30 -	WP 10-30	, #14 43°57,29° 69°34,62° 10-30 -	* #13 13°58.32° / 30 -	* #12 43°55•07; 69°34•42!38´ 27–28 -	Latitude General F Longitude Depth S (Ft.)	ATTACHMENT 6 (Cont.
	28 7	25 NP	26 7, 6	23	28	ZE NP.	22	24 /	# 18.	25	29 1	25	Fath Min Sdg. Hang (Ft.) (Ft.)	t.)
Section of the sectio	16 to 25J	5 to 15J	1 to 4J •	20 to 320 /	90	1 to 30	27 to 32F	23 to 25F	NP-Insuffic	8 to 14F /	1 to 7F v	3 to 5E (	Position, No.	HAMG DATA
				***		hang in definite	40	1.	NP-Insufficient informa		19 •	24	Maximum Clearance (Ft.)	
•	-				ł		1 to 5 K	.	ti'on		27 to 311	6-16E	Position No.	
26 ft. sounding steep bottom profile here.	Hung adjacent to charted	Known shoel ledge. Section of drag:	Known shoal ledge.	Known shoal ledge.	Adjacent to known shoal. F Hung on shelf portion of shoal.	Lesser depth than charted with the control of name of the control of name of the control of the	Narrow channel, Shoals on both sides. Hung at F & N.	Known Shoal extends further seaward than charted 30'curve	Known shoal - Detached /8/7.	Hung on shelf adjacent to	= = =	Lesser depth than charted, V (See Section L of report.)	Remarks	Page 2

A TTACHMENT A	(Cont.)	• •,	HANG	DATA	,	Page 3
	ral Fath th Sdg.	Min Hang (Ft.)	Position No.	Maximum Clearance (Ft.)	-Position No.	Remarks
#24 43°55.33" 6 <b>-3</b> 0		21 NP	37 to 44J	1	***	Wrapped known shoal.
#25 43°55.25° 30-60	0 29 <b>4</b>	Hang not	shifted at stant	25	6-16E	Lesser depth than charted. 29'sdg
#26 43°58.021 69°34.46' 25-42		20.	1 to 5K	15 🗸	1 to 8L 🗸	Note: - See Hong # 17 a/so. (16 sdg)
#27 43°58;25; <b>*</b> 69°34,431′ 10–30	ŏ	15 🗸	1 to 81*,			*Wrapped known shoal. (Avey *2)
#28 43°58.321 69°34.481 10–20	ŏ	17 NP	9 to 16L	.	At 7.45 34.42 (1-82)	1 15 34.41 Applied to H-8842 thus moving the 163 34.41 Applied to H-8842 thus moving the 16-82 M and F hung on shelf bordering the 16-82 M and F hung of section of the a compared the change of the section of the accument
#29 43°58 75° 19 /	1	, r	17 to 20L 🗸	17,4	10 to 36K ~	Lesser depth than charted. (See, Section L of report.) Unable to determine elearing strip fr. heat cheet.
#30 43°58.79° 10-20	90	, #	1 to 611		-	Known shoal area. " 14' applied to H-6842 in 15-18' depotes
#31 43°55.901 30		28 7	31 to 4,2M			Wrapped known shoal.
#32 43°54.121 69°34.43! 38-48	<u>t</u>	26	1 to 6N '	Not	CLEARED C	Lesser depth than charted. (See Section L of report.)
		18' temp	nary granding 1911-2811 15 to 1811	10 VOT CT.	19 to 2011	Lesser depth than charted. (See Section I of report.)
#34:43°53,52° 30 <b>/</b> 69°34.95° 30 <b>/</b>		98	45 to 54P	4	29 to 44H	Drag hung on west side of channel in known depths of 30 ft. '

The second of th

	#ttp t3°52.991 30	69034.16! 25	130 50 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	#38 43°52.92°		#36 43°53.621 / 24	#35 43°53.991 × 69°34.571 30 ——	Latitude General Fath Longitude Depth Sdg (Ft.) (Ft.)	Attachment 6 (Cont.)	-
•	34 .	21		••	#	191	29 7	Min Hang (Ft.)		
	1 to 9S	31 to 33R		+ to AR NP	23 to 250 N.P.	12 to 180	1 to 112	Position No.	HANG DATA	•
· · · · · · · · · · · · · · · · · · ·	-	20 🗸		24	13 not verified ( see 4.818152)	18 /	1	Maximum Clearance (Ft.)	ATA /	•
·	***	1 to 98		22 to 30R	23 to 330 Sheet 1253#481 Hung (notversited shalfal) D.p.	16 to 21R	-	Position No.		•
	Wrapped known shoal.	Known shoal. (See Section L. of report.)	י סי כדים סי	This hang was at the beginning of the strip while the drag	(1) D.P. Pos. 15R. Strip metalited	Lesser depth than charted. (See Section L of report.)	Known shoal.	Remarks	Page 4	•

ADDENDUM
To Accompany

WIRE DRAG SURVEY H-8180 WD (Field No. Wa-Hi-1153 WD)

GENERAL

All drag strips were plotted on seperate overlays and are being forwarded with the smooth sheet. These overlays contain pertinent notes which should be of some value to the verifier.

Drag strips 2 to 7A, 1 to 3G, 10 to 11G, 23 to 25Q and 1 to 4R, were not smooth plotted as the lines appeared to be questionable.

Drag strip 26 to 33S, will increase the dragged area slightly, but was not smooth plotted due to the congestion of lines in this area.

CONTROL

All topographic control had been removed from air-photo compilations covering this area and it was necessary to transfer most of the stations from bromoils of previous hydrographic surveys. These bromoils were furnished by the Washington Office.

Respectfully submitted,

Hugh L. Proffitt

Cartographer.

Norfolk, Va. 9 Sept. 1955

	GEOGRAPHIC NAMES  Survey No. H- \$180 W.D.  Or No. O	/
-	Name on Survey  A  B  C  D  E  F  G  H  K	<u>/</u>
	Maine	1
	Johns Bay	2
	Johns River the only	3
	Damariscotta River	4
		5
		6
		7
	Mames approved	8
	9-29-55. L. HOK	9
		10
		11
		12
		13
		14
		15
		16
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,		25
		26
		27
		d 234

### Hydrographic Surveys (Chart Division)

### HYDROGRAPHIC SURVEY NO. . \$1.80. W.D.

Records accompanying survey:	
Boat sheets; sounding vols;	wire drag vols!!;
bomb vols; graphic recorder roll	s l-Envelope
special reports, etc. 1-Descriptive report.	1-Smooth sheet, 1-A & D Sheet W.D.
&.l-Envelope of everlay tracings.	
The following statistics will be submitted repher's report on the sheet:	with the cartog-
Number of positions on sheet	1200
Number of positions checked	250
Number of positions revised	
Number of soundings revised (refers to depth only)	2
Number of soundings erroneously spaced	•••••
Number of signals erroneously plotted or transferred	
Topographic details	Time 3
Junctions	Time
Verification of soundings from graphic record	Time
Verification by A. K. EnglaTotal ti	me 387. * Date 4-23-59
Reviewed by Ti	me .5/. Dete 5-26-59
* Friend W.D. survey for Ence	7k

#### DIVISION OF CHARTS

Review Section - Nautical Chart Branch

#### REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8180

Maine, Damariscotta & Johns River, Northern Parts Field No. WA-HI-1153

Surveyed - May-Sept. 1953

Scale: 1,10,000

Project No. CS-265

Soundings:

Control:

808 Depth Recorder

Sextant fixes on shore signals

Chief of Party - E. B. Brown
Surveyed by E. B. Brown, J. C. Tribble, H. J. Seaborg and
R. A. Parker
Protracted by - A. Kaupa
Drag Strips inked - A. Kaupa
Verified by - D. R. Engle
Reviewed by - I. M. Zeskind
Inspected by - R. H. Carstens

### 1. Shoreline and Control

The shoreline originates with reviewed air-photographic surveys T-5991, T-5992 and T-5993 of 1941-42,

The source of the control is given in the Descriptive Report.

#### 2. Junctions with Wire Drag Surveys

The junction with H-8181 (1953) WD on the south will be considered in the review of that survey. The present survey extends to the limit of the Project on the north.

### 3. Comparison with Hydrographic Surveys

A. H-791 (1860-1912) 1:10,000 H-903 (1866) 1:10,000

The above listed surveys have been superseded by H-6843 of 1943 and will not be considered in the review of the present wire-drag survey.

B. H-6842 (1943) 1:10,000 H-6843 (1943) 1:10,000

Effective depths of the present wire drag survey do not conflict with the depths on the above listed surveys. Soundings and groundings from the present survey have been transferred to these basic surveys.

### 4. Comparison with Chart 314 (Latest print date 10/6/58)

### A. Hydrography

No conflicts were noted between the charted depths and the effective wire drag depths of the present survey. Several groundings and a sounding have been applied to the chart prior to verification and review of the present survey. Attention is directed to the following:

- 1. The 30-ft. curve charted in lat. 43°58.02' long. 69°34.48' should be moved about 40 meters westward. The curve originates with H-6842 (1943) where it was revised to include a 16 ft. sounding which falls on a shoal on the present survey.
- 2. The 30-ft. curve charted in lat. 43°56.97', long. 69°34.96', should be moved about 40 meters eastward. The curve originates with H-6843 (1943) where the curve was revised to include a 29-ft. grounding falling on the present survey.

#### B. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended.

### 5. Condition of Survey

- a. The Descriptive Report is complete and comprehensive.
- b. The smooth plotting is neat and carefully executed.

### 6. Project Instructions

The survey adequately complies with the Project Instructions.

### 7. Additional Field Work Recommended

No additional field work is recommended.

### Examined and Approved:

Max G. Ricketts Chief, Nautical Chart Branch

Ernest B. Lewey O

Lorin F. Woodcock Chief, Hydrographic Branch

Chief, Coastal Surveys Division

### TIDE NOTE FOR HYDROGRAPHIC SHEET

Division xofx Coastal xSurveys:

10 October 1955

Division of Charts:

R. H. Carstens

Plane of reference approved in 11 volumes of \*\*SOLKATING\* records for wire drag

HYDROGRAPHIC SHEET

8180

Locality Johns Bay, Maine

Chief of Party: E. B. Brown

Plane of reference is mean low water, reading

3.4 ft. on tide staff at Fort Point

14.5 ft. below B. M. 1 (1943)

2.7 ft. on tide staff at East Boothbay

16.6 ft. below B.M. 1 (1943)

2.5 ft. on tide staff at Newcastle

31.2 ft. below B.M. 1 (1943)

Height of mean high water above plane of reference is as follows:

Fort Point: 8.8 ft.

E.Boothbay: 9.0 ft.

Newcastle: 9.4 ft

Condition of records satisfactory except as noted below:

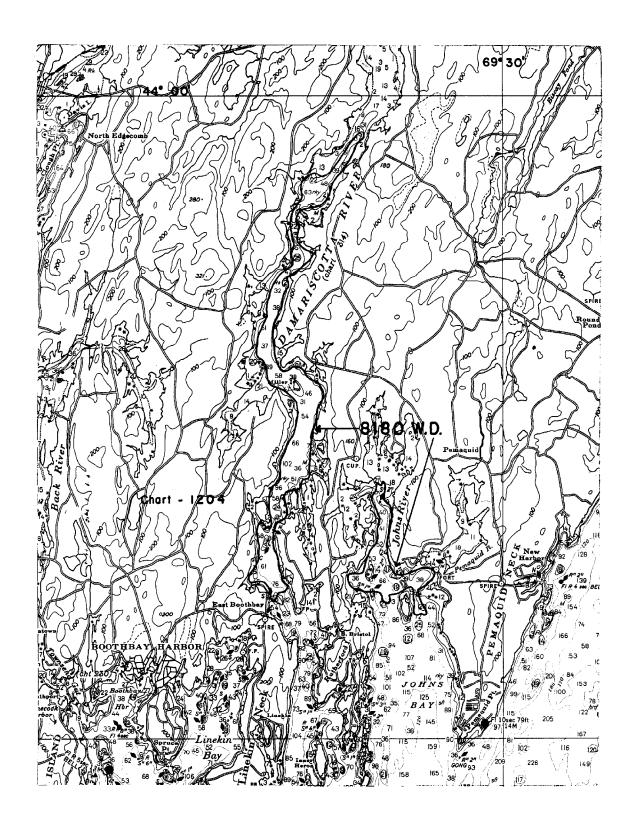
NOTE: Tide reducers for the positions listed below have been revised in red and verified:

Volume	Position	
1	25A - 38A	Applied D.RE.
TT	1G - 9G 🗸	11/2/

Branch

Acting Chief, Division and Tides and Comments.

S. SOVERNMENT PRINTING OFFICE 8779



### NAUTICAL CHARTS BRANCH

### SURVEY NO. H-8180 W.D.

# Record of Application to Charts Reviewed 5-26-59

			-wed 5-26-57
DATE	CHART	CARTOGRAPHER	REMARKS
11/29/55	1204	Muller	Before After- Verification and Review
			Examined - not applied
9-10-56	-314	Maller	Before Merification and Review Partially
12/17/59	314	J. M. Gann	Before After Verification and Review Jully,
12/17/59	1204	Sam Gan	Before After Verification and Review July.
	**		Before After Verification and Review
			Before After Verification and Review
	-		Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
,		-	
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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.