403 403 2a.

U. S. COAST AND GEODETIC SURVEY &

1919

DESCRIPTIVE REPORT.

4032

Hyd. Sheet No. 4032 A

LOCALITY:

Repproaches to

DESCRIPTIVE REPORT. to accompany Hydrographic Sheets Nos. 4032 & 4032a

Sheet No. 4032.

On this sheet is shown the wire drag survey of the approaches to Machias Bay in Eastern Maine, executed by Wire Drag Party No. 2 during September, October and November, 1918, in accordance with instructions dated September 11, 1918.

The work extends in a strip about 5 miles wide from Libby Islands westward to a point due south of Black Rock. The northern limit of the work passes close to the shoreline in the vicinity of Moose Peak L.H.

No shoals dangerous to surface navigation were found in this area. All changes in charted depths that were found, were reported before the end of the season. These changes are shown on the sheet in feet at me an low water.

Tidal observations for the reduction of the work were obtained on a gauge at Jonesport, Maine.

Sheet No. 4032a.

This sheet is a tracing of the projection of Sheet No. 4032, on which are shown the supplemental soundings obtained during the course of the drag work, in accordance with supplemental instructions dated September 12, 1918.

These soundings are shown in fathoms at mean low water. The shoals discovered with the drag are also shown on this sheet. They are shown in fathoms, with red ink, and are surrounded by black circles.

The supplemental soundings were obtained from the tender which sounded at certain buoys as directed, when the drag was under way, and recorded the depth, time, and number of the buoy at which the sounding was obtained. All soundings were obtained by means of vertical casts, using stranded sounding wire, an 8 or 12 pound lead, a registering sheave, and an improvised reel.

Data in regard to the supplemental soundings is recorded in the smooth sounding record. Opposite each sounding is shown, by comparison with the wire drag record, the position of the buoy at which the sounding was obtained. Thus on A day, the first sounding was obtained at N buoy at the time when this buoy had traversed one-quarter of the distance between positions 1 and 2; the second sounding was obtained at No. 5 buoy when the buoy had traversed one-quarter of the distance between positions 4 and 5; etc.

Respectfully submitted.

Chief of Party.

HHawley

TABLE OF STATISTICS_ HYDROGRAPHIC SHEET NO. 2 4032 + 4032 a.

	HYDROGRAPH	ic shëet no. z	4032+4032a	~	
					Sup. Sndqi
Duy Date	Vol.	Positions Soundings	DragLength	Miles	
A Sept. 25,1918	3. /	37 /	5000'	9.0	29
B " 26 "		22 /	12 000	3.5	24
C " 30 "		51 0	5000	11.5	47
0 Oct. 1 "		35 0	6000	10.8	38
E " 4 "		34 0	5000	7,0	19
F "8 "		37 0	6000	10,2	0
G "9"		29 0	6000	10,0	0
H " 10 "	2	29 /	6000	7.0	0
<i>d</i> " " " "	2	28.0	5000	8.0	0
K " /2 "	2	24 0	9000	4.5	0
L " 17 "	2	28 /	12000	9.2	26
M " 19 "	2	31 0	5000	11.0	0
N "23"	2	38 0	6000	13.5	33
0 "24"	2 2	34 0	6000	9.2	36
ρ "25 "	2	32 0	9000	7.0	43
Q 26 "	. 3	20 0	5000	3.5	0
R 28 "	3	17 0	6000	3.0	0
5 Nov. 4 "	3	33. /	6000	9.0	45
T " 5 "	3	36 /	5 000	5.5	31
	3	23 0	5000	5.5	19
		618 6		157.9	390
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LIST OF SIGNALS. Hydrographic Sheet No. 4032.

Hydrographic name	Name of triangulation Sta. location, etc.
Pet	Petit Manan L.H., 1860.
Rag	Karraguagus L.H. 1861.
Nash	Nash Island L.H. 1902.
Sant	Sampers Cove church spire, 1915.
Mark	Mark. 1862
Pal	Three Falls L.S.S. oupola, 1913.
Rom	Crample, 1862.
Peak	Moose Peak L.H., 1862.
Cab	Scabby, 1863,
IAb	Libby Island, LaH. (old), 1862.
Ver	Avery Rock L.H., 1862.
	Special Publication No. 46 for locations of above triangulation ions)
Rot	Hydro. signal located by theodolite cuts, see page 57, Vol. 1 V_*D_* record.
Pond.	
Mem.	Hydrographic signals located by sextent outs, see pages 57-
Black.	59. Vol. 1. Wire Drag record.
Tree	

Original attached to page 1, Vol. 1, wire drag record.

Color Scheme used on smooth sheet of work done on the approaches to Machias Bay.

W.D.P.No.2----Sheet 2-4032

O--19 Feet Brown
20--29 Feet: Yellow:

30--39 Feet Blue

40--59 Feet Red

60--79 Feet Purple

80--0ver. Orange

PROGRESS CHART

SHOWING CONDITION OF RECORDS OF

Hydrographic Sheet No. 4632 Field No. 4

Wire drag survey of Approaches to Machias Bay																							
Sco	ale	1/40,000 Date of Survey 1918																					
Su	rveyed by		J.H.Hawley																				
Day	DATE	Signaled angles com- pared	Distances entered	Distances checked	Length of upright entered	Length of upright checked	Correction entered	Correction checked	Drag depth entered	Drag depth checked	Reducers entered	Reducers checked	Effective depth entered	Effective depth checked	Effective depth diagram entered	Effective depth diagram checked	Positions plotted	Dragged strip traced	Tracing checked	Area subdivided	Subdivision checked	Transferred and inked	Compared with chart
A	9/25	ELG	H.v.H	F.V.O	γ.Α.	EJH	JHH	5.MF.	5! ^{A.F}	R.V	5!4,5	R.L.H	51 ¹ / ₆	RILH			5MF			جهر <u>د</u>		S.M.F.	
B	9/26	CV. 1.	/	/	6.A.	J. J.	المارل	< M.P.	~ W. ?	ov."	٠٨٠١	ar"	514.5	R.L.			511.6			510.5		5.M.F	
C	9/30	1. L.G	14 14 V	ELG	F.P.	6,7	J.H	- AF	am.r	M	4 (ا ۸۲۱	RLM			SMF			SM.F.		SMF	-
D	10/1	FLG	MAY	ELG	F.A.	E.Jr	J.H.H	5.14.8	5,14.7	RLH	~ W.	R.LH	5.M.F	RLM			S.M.F		 	SMF.		SM.	
E	10/4	ELG	MMA	F.L.G	F.A.	SMF	J.H. 1	5 M.	SM,	RUN	5, M.F	RLH	5.M.F	RLH			5,12			5MF		5.MF	
F	10/8	F.L.G	4.~	FLG	/	/	الم الم		S.M.	RU	5.11.5	RLH	SMF	RLH			SMF			SMF		SMF.	
G	10/9	FLG	H.W +	FLG	S.M.F.	F.P	J.H.H	SM.P	5.4.5	RLPI				RUP			S.M.F.		 -	SMF		SMF	
Н	19/10	FLO	HWH	S.M.F.	f.A.	5.71.5	J.H.H.	^ب ارر	5.M	PLH	5.71.5			RLT			5.MF			S.M.F.		SMF.	
Ú	10/11	ولمايج	SMF	F.L.C	/	/	J.H.H	/	S.M.F.	ALH	5.M.P	RLH	S.M.F				5,M.F			S.M.F.		5MF	
Н	10/12	W/A	/	/	/	/	٢,٢١,٢	/	S.M.F	RLH	K.M.F	RU	5.M.F	RUH			5.M.F.			S.M.F.		SM.F.	
4	10/17	15/16	/	/	/	/	JHH	/	5M.F.	PLH	S.M.F	RLH	5.M.F	RLH			SMF			SMF.		S.MF.	
M	10/19	CLG	JHH	f.L.G	/	/	JHH	1	5MF	RLH	5 M.P	RLY	SM.F.	RLM			SMF.			5MF		SMF	
N	10/23	5.11.5	1 .0	6!MF	5,M.F.	6.0	لالل اللال	SMP	SM.F	RLH	5m.F		5.M.F	RUH			5.MF.			5M.F.		SMF	
0	10/24	KM.F	4.0	5.M.F	b'ry.	5.M.F.	\mathcal{J}^{H^H}	5MF	5.14.6	RLH	5.M.F	Rur	SM.F.	RLH			SMF.			5MF		S.M.F.	
P	10/25	M bin	/	/	bin		JH^H	5.M.F.	5 M.F	RLM	5.14.9	RLH	5,M.F.	BLY			S.M.F.			SM.F.		SMF.	
Q	10/26	N.C.	N .c.	5. ¹¹ , c	b'y	S.M.F	$\mathcal{J}^{\mathcal{H}^{\mathcal{H}}}$	5,11.8	514.9	RLH	S.M.F.	RLH	S.M.F.	RLT			S.MF.			5,1 ^{1,6,}		SM.F.	
A.	10/28	Nc.	۲.0.	5.MF	6.4	5.M.F.	JHH	SMP	SM.	RLH	5,MF	RLH	SM ^{F.} SM ^{F.} SM ^F	RLH			5,M.F.			SM.F		SMF	
	11/4	4.0	۲,0.	5.19	b'4	5.14.4	JHH	5.14,	SM.F	RLH	5.11.1	RLH	SM.F.	RLL			SM.			S.M.F.		SM.F.	
	11/5	P. V.	40.	5.1.5	bin	5.M.F.	JHH	g.M.F.	5 M.F	ALH	SM.F	RLH	5M.F	RLH			SM.F.					S.M.F.	
<i>U</i>		S.M.F	4.0.	5! ^{1,8}	p.4	S.M.	JHH	5M.F	SM.F	RL	S.M.F	RLY	511	RLT	1		SM.F.			S.M.F.		SMF	
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AND REFER TO NO. 41-ACC

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

WASHINGTON May 13, 1919.

FIELD RECORDS (2)

Division of Hydrography and Topography: He

Division of Charts:

Tidal reductions have been approved in 4 volumes of Wire Drag and Sounding records for

HYDROGRAPHIC SHEET 4032

Approaches to Machias Bay, Maine. J.H. Hawley in 1918.

Plane of reference is Mean low water, reading

2.5 ft. on staff at Jonesport, Maine.

Chief, Section of Tides and Currents.

clin Report of Hydrographer 4032 + 4032A The entire area wither the limit dragged appears I be well covered year for the splits as designated. Tell of the nevords were unusally well kept. There were small different mening throughout be-tween the original stolling of govitions and that as plotted for verification. They were not sufficient however I warrant eny Change. On I day the slotter failed & plot one position for the area publication for that day. In a few instances the distance between the two launches as computed from the distance angles was greater than the gossible maximum, that is the drag length plus the low line at 36 7 The position of the guide launch was brought in so as to leasen The length of deag as originally solled making it plot is as & conform to the full length of deag. at it the the deag was corrected & full length as earlied frim the record The plotling of the supplemental somewings as a whole was eachersly done. About 40 to of the soundings

had & for country the deaftermen in plotlery contrary & regulations, used 3 and if fut as a quantity sufficient to menere the sounding as morted & the next highest futhous; i.e. 4 fms. 3 ff or 4 fms. 4 ft. was plotted as 5 fms. This error was carried throughout and make up soundings on S' day were corrected on the opening was morely deer & the error on this day as writed about the soundings in a few cases were rest accurately expected and two or their considerations were rest accurately were reported and two or their considerations or the considerations.

Respulfully submilled,

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ADDRESS THE DIRECTOR U.S. COAST AND GEODETIC SURVEY

and refer to no. $4 ext{-}\mathrm{DRL}!$

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY WASHINGTON

June 12, 1923.

SECTION OF FIELD RECORDS

Report on Wire Drag Sheet No. 4032.

Surveyed in 1918.

Chief of Party, J. H. Hawley.

Surveyed by J. H. Hawley.

Protracted by F. M. Albert; S. M. Ferguson.

Inked by S. M. Ferguson.

Verified and Area and Depth Sheet by A. Baer.

- 1. The depth and extent of dragging satisfy the specific instructions.
- 2. A clearance depth was obtained over all shoals discovered sufficient to insure safety to surface navigation in this particular locality except the 76-foot spot found at the end of T day. The drag grounded here at a depth of 89 feet and 76 feet was the least water obtained. No further dragging was done here. The least water was, therefore, not obtained on this shoal.
- 5. The supplemental hydrography is suitable for correcting the charts only in places where there are extensive blank areas. Otherwise, by order of the Chief, Division of Charts, the supplemental hydrography shall be disregarded.
- 4. The overlaps are sufficient.
- 5. There are several splits on this sheet, all shown on the Area and Depth sheet. As further work will be done in this locality, these splits should all be covered at that time. Also, the 76-foot spot mentioned in paragraph 2 should be dragged to determine the least water. The depths all around this spot vary from 2 to 2 1/2 times as deep and it is quite possible that much shoaler water exists. It is therefore highly advisable to determine a clearance depth on this spot as soon as practicable. Attention is called to the fact that this 76-foot spot does not appear on the latest edition of Chart 1201, and also to the fact that all the bottom characteristics of the soundings discovered by the drag were omitted from Chart 1201.
- 6. Reviewed by A. L. Shalowitz, June, 1923.

Considered in secustaction of charts 303 305 4172 11/0/56

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