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1908

Diag. Cht. No. 1202

Department of Commerce and Labor
COAST AND GEODETIC SURVEY

O. H. Jittmann
Superintendent.

State: *Maine*

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 2966

LOCALITY:

Eastern Bay

1908

CHIEF OF PARTY:

W. H. Heck

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DESCRIPTIVE REPORT

To accompany sheet #7 Eastern Bay, Maine.

The work on this sheet was directed with the view of covering to the best advantage, with wire drag, all portions of Eastern Bay from the limits dragged in 1901 to its head, carrying a depth of 36 feet except in a few instances where the charted depths were less than 36 feet and such as to cause suspicion. In covering these areas it was with the general intention of dragging to within two feet or less of the charted depths.

Attention is called to the fact that there are a few cases when the depth dragged was a few tenths less than that sought, which errors are due to either of the two following causes. First; that of the actual tide being more than the predicted. Second; In this locality the new type of drag for working to any desired depth was standardized and consequently the lack of experience caused some errors, but these were practically eliminated while working in this vicinity. In all cases the errors were few and rarely exceed 0.5 of a foot.

It is to be noted that on Aug. 21 st " D" day, the officer in charge of the end launch failed to interpret the signals for pulls as they were given and consequently there is a discrepancy from beginning of the days work to 10:54 A.M. due to the greater pulls in the end launch affecting that part

of the drag.

A thorough examination was made of the area adjoining Googin's Ledges developing nothing less than the effective depth of the drag, which, with ~~the~~ a few exceptions, was 36 feet, and in these cases the depth was not less than 32 feet.

All important areas of the Bay were covered except in three small places, one to the south and two to the southwest of Googin's Ledges. These areas are clearly shown by the cross hatched lines on the sheet. In dragging this locality a considerable area was covered twice in order to be certain that ~~no~~ part was missed, but in spite of this precaution the above named splits exist.

The only shoal of any importance was a rock found just N.E. of Sands Point and was covered by a least depth of 30 feet of water and surrounded by 7 fathoms of water and muddy bottom.

Red Spar Buoy #4 on Googin's Ledge, 2025 meters distant, Bearing 295° 45' (NW x W 3/4 W) magnetic.

It was proven that the charted depth of 4 fathoms in Salisbury Cove does not exist as a depth of 37 feet was carried over that place. ~~The~~ Red Spar Buoy #6 Googin's Ledge,

775 meters distant, bearing NNE 1/2 E.

All distances are scaled off from the ~~chart~~ ^{sheet} and bearings are magnetic.

The abbreviations used in recording the buoy angles

#3

are the same for the whole seasons work and may be found in
the
~~teh~~ descriptive report for sheet # 8 Fox Island Thorefare.

A table of pulls and the corresponding drag depths
is transmitted with this sheet and will be found useful infor-
mation for the draughtsman.

HYDROGRAPHIC SIGNALS

Hyd. Sheet 7. Eastern Bay

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Name	Description	Latitude	Seconds in Meters	Longitude	Seconds in Meters
ACRE	Flagpole on Hotel Shoreacre Chimney on small	44	27	363.5	68 17 144.5
BEACH	white cottage on Meadow PT. Cupale spike	44	27	763.0	68 16 814.5
CHURCH	on church at Jordan River Flagpole	44	27	253.0	68 22 136.3
FLAG	at Naval Coaling Station Windmill tower 1/4	44	27	100.3	68 17 1163.3
MILL	mile N. of Mt. Desert Narrows Centre of roof	44	26	482.0	68 22 305.4
PAVE	small pavillion on Old Point Chimney on small	44	27	723.4	68 19 949.0
RED	red house on Hadleys Point	44	26	1200.2	68 19 183.8
SAL	CH. Sp. at Salsbury Cove West chimney on	44	25	1600.8	68 17 430.0
WEST	Hodgkins house on Old Pt. (E)	44	28	1029.1	68 16 426.7

Drag Depths for 480 ft. Drag

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Pull in pounds

Drag depth	110	120	130	140	150	160	170	180	190	200	210	220	Drag depth
47				AD									47
46	BD					AD							46
45		BD					AD						45
44			BD					AD					44
43					BD				AD				43
42	CD					BD					AD		42
41		CD						BD				AD	41
40			CD						BD				40
39	AE				CD						BD		39
38		AE				CD						BD	38
37			AE					CD					37
36					AE						CD		36
35	BE						AE						35
34		BE							AE				34
33				BE							AE		33
32	CE					BE						AE	32
31		CE						BE					31
30			CE								BE		30
29					CE								29
28								CE					28
27		AF										CE	27
26				AF									26
25						AF							25
24	BF												24
23			BF										23
22					BF								22
21										BF			21
20	CF												20
19			CF										19
18								CF					18
17											CF		17

Length of Uprights.

- AD = 57 - 51 ft.
- BD = 53 - 47 "
- CD = 49 - 43 "
- AE = 44 - 40 "
- BE = 40 - 36 "
- CE = 36 - 32 "
- AF = 32 - 28 "
- BF = 28 - 24 "
- CF = 24 - 20 "

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Tide Gauge for reduction of soundings at Eastern Bay located at Naval Coaling Station at East Lamoine, Maine.

The plane of reference, mean low water, corresponds to a reading of 2.52 feet on tide staff .

Lowest tide observed, reading on gauge

Highest tide observed, reading on gauge

See records at office

Hyd Sheet No. 2966.

Jan. 20, 1909.

The soundings on this sheet are plotted
correctly.

Records were kept in a satisfactory manner

A. H. Simons

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app to 306 Records. then started information on 306 effective 2/15/62