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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Rhode Island*

DESCRIPTIVE REPORT.

Hydro. Sheet No. *3571*

LOCALITY:

*Narragansett Bay
Bristol Harbor
and
Approaches*

1913

CHIEF OF PARTY:

J. B. Boutelle

11-4645

3571

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 3571 (No. "C")

Narragansett Bay, Rhode Island

Eastern Passage, Dyer Island northward and Bristol Harbor

1913

Method of Survey:

Hydrographic signals were erected on both sides of the bay and determined by triangulation. Lines were run north and south approximately 100 meters apart and crossed at about 200 meters. Sounding was done from the ship ("Endeavor") outside of the 2-fathom curve and the inside area sounded from launch and whaleboat.

Changes:

No marked changes from the chart were noticed during the sounding. After the fair sheet is plotted a comparison with the old work will be necessary to show what changes there are.

Names:

No change.

Shoreline:

A number of new wharves were located principally in Bristol Harbor; they have been plotted and inked on the fair sheet.

Data:

A list of geographic positions of all signals used and a tabular table of records and statistics of this sheet accompany this report.

H. 3571.

Narragansett Bay. Area well covered. All data obtained in accordance with instructions for field work.

Sheet examined in Div.
of Hyd'y & Top'y.

STATISTICS - HYDROGRAPHIC SHEET, Field No. "C".



Date 1913	Letter	Vol.	Pos.	Sdgs.	Miles	Vessel
Aug. 26	A	1	90	747	18.5	Endeavor
27	B	1	69	549	12.8	"
28	C	1 & 2	131	954	27.5	"
30	D	2	60	315	10.0	"
Sept. 3	E	2	113	686	25.0	"
4	F	2	143	713	27.0	"
5	G	3	68	630	11.5	"
6	H	3	69	369	12.8	"
8	J	3	131	819	20.6	"
9	K	3	56	164	8.0	"
10	L	4	102	574	14.2	"
11	M	4	103	435	14.0	"
12	N	4	130	595	18.5	"
13	O	4 & 5	55	423	9.8	"
15	P	5	106	817	17.7	"
16	Q	5	151	1188	29.0	"
17	R	6	52	406	9.8	"
17	a	7	47	255	3.9	Launch No. 44
23	b	7	135	944	16.0	"
24	c	7	117	745	11.5	"
25	d	8	77	696	10.5	"
26	e	8	6	53	.8	"
27	f	8	41	433	5.2	Whaleboat
29	g	8	69	717	13.5	Launch No. 44
30	h	9	111	782	10.2	Whaleboat
Oct. 1	j	9	115	669	10.0	Launch No. 44
6	k	9 & 10	139	705	12.0	"
7	l	10	119	915	12.5	"
8	m	10 & 11	92	748	15.4	"
9	n	11	60	517	9.5	"
10	o	11	90	692	13.0	"
Nov. 1	p	11	55	416	7.0	"
Totals -----		11	2902	19671	437.7	

Total Area "C" sheet --- $19\frac{1}{4}$ sq. miles.

To accompany Descriptive Report
 Hydrographic Sheet No. Field No. "C"

GEOGRAPHIC

Locality Narragansett Bay

Sheet "C" (Field No.)

Datum.

11-676

STATIONS. 1913	Name used in hydrographic record in red.	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.
Patience 1843 - 1913		41 39 33.47	1032.6	71 21 24.58	568.7
Prudence Id. Lt.Ho. 1861 -1913	<i>Prud.</i>	41 36 21.345	658.5	71 18 14.462	334.9
Dyer Island 1843-1913	<i>Dyer</i>	41 34 57.24	1765.9	71 17 55.49	1285.4
Bell 1913		41 39 36.97	1140.5	71 21 59.25	1370.8
Pine Hill 1863 - 74	<i>Pine</i>	41 38 00.469	14.5	71 20 35.806	828.7
Old R.I. Yacht Club 1913 (Pole on cupola)	<i>Club</i>	41 37 59.36	1831.3	71 19 57.96	1341.6
^{<i>Shadls</i>} Hog Id. Lt.Ho. 1904	<i>Hog</i>	41 37 56.637	1747.3	71 16 25.385	587.5
Bristol Ferry Lt.Ho. 1897	<i>Bris</i>	41 38 34.434	1062.3	71 15 38.647	894.4
Muscle Bed Shoals Lt.Ho. 1897	<i>Mus</i>	41 38 10.748	331.6	71 15 37.521	868.4
Castle Id. Beacon 1904	<i>Castle</i>	41 37 13.97 56.637	431.0 1747.3	71 17 12.17 16 25.385	281.6 587.5
Bristol Meth.Ch.Spire 1843-1913	<i>Spire</i>	41 40 15.39	474.8	71 16 31.88	737.5
Squash		41 40 22.17	684.0	71 18 24.03	555.9
Kid		41 41 36.99	1141.2	71 17 34.82	805.2
Prudence, U.S.E.	<i>USE</i>	41 39 33.29	1027.0	71 20 31.23	722.5
Nag		41 37 49.21	1518.2	71 18 59.31	-16.0
Cop		41 37 11.28	348.0	71 16 30.12	697.4

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POSITIONS.

State

	AZIMUTH. ° ' ''	BACK AZIMUTH. ° ' ''	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
<p>Do not write in this margin.</p>					

GEOGRAPHIC

Locality **Narragansett Bay**

Sheet "C" (Field No.)

Datum.

11-676

STATIONS. 1913	Name used in hydro ^s record in red.	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.
		°	'	"		°	'	"	
✓ Bat		41	35	01.93	59.5	71	19	00.70	16.2
✓ Carr		41	34	16.47	508.1	71	17	41.13	952.9
✓ Brad		41	35	18.52	571.4	71	17	16.74	387.7
✓ Pop		41	38	59.12	-20.4	71	18	05.22	120.8
✓ North Pt. House, chy.	<i>North</i>	41	40	00.08	2.5	71	20	43.28	1001.3
✓ Shanty, north gable	<i>Shan</i>	41	39	20.51	632. ⁷ 4	71	18	17.06	395. ^{4.8} 0
✓ Potter's Cove, windmill	<i>Pot</i>	41	38	19.84	612.1	71	20	42.37	980. ⁷ X
✓ Hog. Id. Searchlight	<i>Sea</i>	41	38	37.16	1146. ⁴ 7	71	16	51.00	1180. ³ 8
✓ Flagstaff	<i>Staff</i>	41	36	13.29	410.0	71	16	24.78	573.8
✓ Colt		41	40	57.05	1760.0	71	17	53.07	1227.4
✓ Green House, chy.		41	37	15.09	465.5	71	16	26.29	608.6
✓ House, west gable		41	37	07.73	238.5	71	16	31.12	720.5
✓ Coal Breaker, N.W. gable	<i>Coal</i>	41	36	54.77	1689.7	71	16	13.40	310.2
✓ Prudence Id. Casino, flagstaff	<i>Cas</i>	41	37	07.53	232.3	71	18	17.41	403.1
✓ Nags Pond, U.S.E.		41	37	48.85	1507.0	71	18	58.44	1352.7
✓ Windmill, east side Warwick Neck	<i>Wind</i>	41	40	27.61	851.8	71	22	28.53	660.0

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POSITIONS.

State

	AZIMUTH. ° / "	BACK AZIMUTH. ° / "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
<p>Do not write in this margin.</p>					

GEOGRAPHIC

Locality *Narragansett Bay*

Hydro^c Sheet - Field No. *C*

Datum.

11-676

STATIONS. <i>determined by sextant angles</i>	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.
<i>Flag K -</i>	<i>41 39 +</i>	<i>150</i>	<i>71 21 +</i>	<i>1</i>
<i>" J /</i>	<i>41 39 +</i>	<i>1020</i>	<i>71 21 +</i>	<i>83</i>
<i>" H /</i>	<i>41 39 +</i>	<i>1698</i>	<i>71 20 +</i>	<i>1303</i>
<i>" L /</i>	<i>41 39 +</i>	<i>437</i>	<i>71 21 +</i>	<i>541</i>

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POSITIONS.

State

	AZIMUTH. ° / "	BACK AZIMUTH. ° / "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
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VEC
Apr. 9, 1914.

HYDROGRAPHIC SHEET 3571.

Eastern Passage, Narragansett Bay, Rhode Island, by
Assistant J. B. Boutelle in 1913.

TIDES.

	Bristol ft.	Nayatt Point ft.
Mean low water, or plane of reference on staff	1.0	2.4
Lowest tide observed " "	-0.5	1.3
Highest " " " "	8.4	8.5
Mean range of tide	4.1	4.6

= Hyd. Sheet 3571 =

The area covered by this sheet is generally well covered - and with the exception of more development in a few places the work is well executed. The records are well kept - with the exception of a few instances, where, a few notes in "Remarks" column, when passing prominent objects or rocks, would greatly assist when soundings are being plotted.

The positions were projected in the field and the soundings plotted and inked in the office.

The chart shows a 17 ft shoal north of Dyer I. - this survey shows 18 ft as least water - more development might have brought out less water -

The shoal water south of Hog I. has extended farther south - more development would have been better in this locality.

The chart shows two shoals having 15 + 18 ft on them about $\frac{3}{5}$ of a mile west of the lower end of Hog I. - The survey shows nothing less than 17 ft. - more lines here would have been better -

The 6, 12, + 18 ft curves on the East side of Prudence I. and north from Prudence I. - Casino to North Pt. show great changes - also a 16 ft.

Sounding shown 400 meters N.E. of Bear Pt. is evidently an error in recording - the 18ft curve in this vicinity differs greatly from the published Chart.

The chart shows a least depth of 8 ft. on Ohio Ledge while this survey shows 9 ft. as being the least water - additional lines in this vicinity would have helped development.

The shoal water S.W. of Ohio Ledge has extended southward -

The crossings with few exceptions are good.

P. B. Castles

3/16/15.

Verified by J. B. Ingle

19/11/15.

