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C. & G. SURVEY,
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Department of Commerce and Labor
COAST AND GEODETIC SURVEY

Superintendent.

State: *Rhode Island*

DESCRIPTIVE REPORT.

Hydro Sheet No. **3565**

LOCALITY:

*Narragansett Bay
Entrance to
Providence &
Warren Rivers*

1913

CHIEF OF PARTY:

J. B. Boutelle

11-4645

3565

Duplicate

DESCRIPTIVE REPORT

To Accompany Hydrographic Sheet No. 3565

Narragansett Bay, Rhode Island.

Rocky Point to Bullocks Neck Light House

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 to 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. Several new rocks were located.

Names:

No change.

Shoreline:

No changes except new wharves which 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.

J. D. Boutelle
Assistant, C. G. Survey
Comdg. Str. Endeavor

Tidal Data:

Tide gauge established at Nayatt Point and connected with B.M. No. 1 of 1865. See also tide gauge at Bristol, R.I.

D

D E S C R I P T I V E R E P O R T

To Accompany Hydrographic Sheet No. 3565 (old No. "D")

Narragansett Bay, Rhode Island.

Rocky Point to Bullocks Neck Light House

1 9 1 3 .

C. & G. SURVEY, LIBRARY AND ARCHIVES DEC 18 1913 Acc. No.

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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.

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Tide gauge established at Nayatt Point and connected with B.M. No. 1 of 1865. See also tide gauge at Bristol, R.I.

J. D. Duntelle
Assistant, C. & G. S.
Chief of Party
Comdg. Str. Endeavor

800 / 131444
554
16440
7420

(164)

POST-OFFICE ADDRESS:

TELEGRAPH ADDRESS:

EXPRESS OFFICE:

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY
(2)

This gives a line that crosses other lines of ship and whaleboat soundings reasonably well considering the irregular nature of the bottom.

Respectfully,



Ass't. C. & G. Survey.

Through the Commanding Officer

C. & G. Survey Str. Bache.

Respectfully forwarded.
R. F. Duce
Comdg. Str. Bache

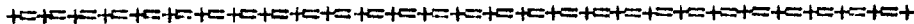
STATISTICS - HYDROGRAPHIC SHEET, (Field No. "D")



Date 1913	Letter	Vol.	Pos.	Sdgs.	Miles.	Vessel
Oct. 2	A	1	79	694	15.5	Endeavor
3	B	1	105	876	19.5	"
13	C	1 & 2	140	1271	33.5	"
14	D	2	33	302	8.0	"
17	E	2	122	1133	23.5	"
18	F	3	68	438	13.5	"
21	G	3	92	734	18.5	"
22	H	3	91	500	13.5	"
23	J	3 & 6	104	668	16.9	"
22	a	4	126	1224	19.8	Launch No.44
23	b	4 & 5	113	1188	17.7	"
25	c	5	16	151	2.3	"
27	d	5	74	716	10.2	Leh. & Whl'bt.
28	e	5 & 7	94	1105	9.8	Whaleboat
29	f	7	90	933	10.0	"
30	g	7	92	800	8.2	"
31	h	8	38	411	6.8	Launch No.44
Totals -----		8	1476	13144	247.2	.

Total Area "D" sheet --- 13 sq. miles.

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



Date 1913	Letter	Vol.	Pos.	Sdgs.	Miles	Vessel
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22	H	3	91	500	13.5	"
23	J	3 & 6	104	668	16.9	"
22	a	4	126	1224	19.8	Launch No. 44
23	b	4 & 5	113	1188	17.7	"
25	c	5	16	151	2.3	"
27	d	5	74	716	10.2	Loh. & Whl'bt.
28	e	5 & 7	94	1105	9.8	Whaleboat
29	f	7	90	933	10.0	"
30	g	7	92	800	8.2	"
31	h	8	38	411	6.8	Launch No. 44
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Total Area "D" sheet --- 13 sq. miles.

To accompany Descriptive Report of
Hydrographic Sheet No. *Field No. "D"*

GEOGRAPHIC

Locality Narragansett Bay

Sheet "D" (*Field No.*)

Datum.

11-676

STATIONS. 1913	<i>Name used in hydro^s record in red.</i>	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.	
Windmill, east side Warwick Neck	<i>Wind</i>	41 40 27.61	851.8	71 22 28.53	660.0	✓
Conimicut U.S.E. 1912 - 13	<i>Nim</i>	41 43 02.16	66.6	71 21 26.67	616.5	✓
Rocky Point U.S.E. 1912 = 13	<i>Rock</i>	41 41 29.85	920.9	71 21 50.18	1160.4	✓
Green U.S.E.		41 43 57.23	1765.6	71 22 43.94	1015.4	✓
Rum		41 42 22.74	701.5	71 18 09.18	212.2	✓
Water Tank, Conimicut Pt.	<i>Fin</i>	41 43 06.91	213.2	71 22 19.27	445.4	✓
Water Tank, gallery on top, Conimicut Pt.	<i>Gal</i>	41 43 13.88	428.2	71 22 32.95	761.6	✓
Black Water Tank, windmill on top	<i>Black</i>	41 43 40.31	1243.6	71 19 11.71	270.6	✓
Grey Water Tank, center pole	<i>Grey</i>	41 43 26.32	812.0	71 18 35.83	828.1	✓
Pile		41 44 26.86	828.6	71 20 55.85	1290.5	✓
Ballou? flagstaff	<i>Lou</i>	41 44 19.91	614.2	71 20 49.21	1137.2	✓
Shed, white top	<i>Top</i>	41 44 05.22	161.0	71 20 25.77	595.5	✓
Warren Mfg. Co., tall brk.chy.		41 44 04.51	139.1	71 17 15.34	354.5	✓
Warren Courthouse, spire		41 43 44.46	1371.6	71 16 57.07	1319.0	✓
Tall Brick Chimney, Warren		41 43 39.11	1206.5	71 16 10.42	240.8	✓

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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 "D" (Field No)

Datum.

11-676

STATIONS. 1913	Name used in hydro record in red.	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.
✓ Large Red Water Tank conical roof	<i>Red</i>	41 42 16.96	523.2	71 16 48.74	1126.9 ✓
✓ Aldrich's Tower 1912-13	<i>Ald.</i>	41 41 01.06	32.7	71 22 41 30	955.3 ✓
✓ Observatory, Rocky Pt. 1912-13	<i>Ob</i>	41 41 19.81	611.1	71 22 01.79	41.4 ✓
✓ Rocky Pt. Hotel chimney		41 41 21.91	675.9	71 21 56.52	1307.0 ✓
✓ Conimicut Lt. Ho. 1897	<i>Con</i>	41 43 01.28	39.5	71 20 44.10	1019.5 ✓
✓ 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 ✓
✓ Colt		41 40 57.05	1760.0	71 17 53.07	1227.4 ✓
✓ Nayatt Lt. Ho. 1863 - 97	<i>Nay</i>	41 43 30.64	945.3	71 20 21.88	505.7 ✓
✓ Bullock Pt. Lt. Ho. 1897	<i>Bull</i>	41 44 15.92 48 01.50	491.1 46.3	71 21 52.81 23 31.45	1220.3 726.1
✓ Gaspe Point, U.S.E. & C.G.S. 1897	<i>Gaspe</i>	41 44 34.07	1051.1	71 22 47.15	1089.5 ✓
Warren Beacon 1863		41 42 48.74	1503.7	71 17 37.25	861.1
Warren Meth. Ch. Spire 1863 - 90		41 43 48.78	1504.9	71 17 02.73	63.01
<i>Qys</i> Flag on s.e. corner of wharf		41 42 +	387	71 21 +	1130

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POSITIONS.

State

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

GEOGRAPHIC

Locality

Hydrographic Sheet Field No. "D".

Datum.

11-876

STATIONS. 1913 Determined by plane table	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.	
Warren River					
Flag "A"	41 42	358	71 17	670	
Flag "B"	41 42	1366	71 17	648	
Flag "C"	41 42	1776	71 17	853	
Flag "D"	41 43	290	71 17	1205	
Flag "E"	41 42	1343	71 17	1244	
Open (flag pole)	41 43	235	71 17	846	
Shell (pole on east gable of oyster house)	41 43	954	71 17	482	
Tank (center of water tank)	41 43	431	71 17	78	
Pole	41 43	402	71 17	256	
Chy	41 43	901	71 17	282	
Mill	41 43	1123	71 17	862	

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POSITIONS.

State

AZIMUTH. ° / "	BACK AZIMUTH. ° / "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
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D

GEOGRAPHIC

Locality Narragansett Bay

Sheet No. (Field # "D")

Datum.

11-876

STATIONS. 1913	Name used in Hydrog Record	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.
		°	'	"		°	'	"	
Windmill, E. side War- wick Neck	Wind	41	40	27.61	851.8	71	22	28.53	660.0
Conimicut U.S.E. 1912-13	Nim	41	43	02.16	66.6	71	21	26.67	616.5
Rocky Point U.S.E. 1912-13	Rock	41	41	29.85	920.9	71	21	50.18	1160.4
Green U.S.E.		41	43	57.23	1765.6	71	22	43.94	1015.4
Run		41	42	22.74	701.5	71	18	09.18	212.2
Water Tank, Conimicut Point	Fin	41	43	06.91	213.2	71	22	19.27	445.4
Water Tank, gallery on top; Conimicut Pt.	Gal.	41	43	13.88	428.2	71	22	32.95	761.6
Black Water Tank, windmill on top	Black	41	43	40.31	1243.6	71	19	11.71	270.6
Grey Water Tank, center pole	Grey	41	43	26.32	812.0	71	18	35.83	828.1
Pile		41	44	26.86	828.6	71	20	55.85	1290.5
Ballou? flagstaff	Lou	41	44	19.91	614.2	71	20	49.21	1137.2
Shed, white top	Top	41	44	05.22	161.0	71	20	25.77	595.5
Warren Mfg. Co. tall brick chimney		41	44	04.51	139.1	71	17	15.34	354.5
Warren Courthouse, spire		41	43	44.46	1371.6	71	16	57.07	1319.0
Tall Brick Chimney, Warren		41	43	39.11	1206.5	71	16	10.42	240.8

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GEOGRAPHIC

Locality Narragansett Bay

Sheet No. (Field # "D")

Datum.

11-576

STATIONS.	Name used in Hydro ^g Record	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.
Large Red Water Tank conical roof	Red	41 42 16.96	523.2	71 16 48.74	1126.9
Aldrich's Tower 1912-13	Ald	41 41 01.06	32.7	71 22 41.30	955.3
Observatory, Rocky Pt. 1912-13	Ob	41 41 19.81	611.1	71 22 01.79	41.4
Rocky Pt. Hotel Chy.		41 41 21.91	675.9	71 21 56.52	1307.0
Conimicut Lt.Ho. 1897	Con	41 43 01.28	39.5	71 20 44.10	1019.5
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
Colt		41 40 57.05	1760.0	71 17 53.07	1227.4
Nayatt Lt.Ho. 1863-97	Nay	41 43 30.64	945.3	71 20 21.88	505.7
Bullock Pt.Lt.Ho. 1897	Bull	41 44 15.92	591.1	71 21 52.81	1220.3
Gaspe Pt., USE. & CGS. 1897	Gaspe	41 44 34.07	1051.1	71 22 47.15	1089.5
Warren Beacon 1863		41 42 48.74	1503.7	71 17 37.25	861.1
Warren Meth.Ch.Spire 1863-90		41 43 48.78	1504.9	71 17 02.73	63.01
Oys, flag on SE corner of wharf		41 42 +	387	71 21 +	1130

Do not write in this margin.

GEOGRAPHIC

Locality Narragansett Bay - Sheet No. ()

Datum.

11-476

STATIONS. 1913 Determined by plane table Warren River	LATITUDE. ° ' "	Seconds in Meters.	LONGITUDE. ° ' "	Seconds in Meters.	Do not write in this margin.	
Flag "A"	41 42	358	71 17	670		
Flag "B"	41 42	1366	71 17	648		
Flag "C"	41 42	1776	71 17	853		
Flag "D"	41 43	290	71 17	1205		
Flag "E"	41 42	1343	71 17	1244		
Open (flag pole)	41 43	235	71 17	846		
Shell (pole on east gable of oyster house)	41 43	954	71 17	482		
Tank (center of water tank)	41 43	431	71 17	78		
Pole	41 43	402	71 17	256		
Chy	41 43	901	71 17	282		
Mill	41 43	1123	71 17	862		

POSITIONS.

State

AZIMUTH. ° / "	BACK AZIMUTH. ° / "	DISTANCE TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
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VEC
Feb. 6, 1914.

HYDROGRAPHIC SHEET 3565.

Rocky Point to Bullocks Point, Narragansett Bay, Rhode
Island, by Assistant J. B. Boutelle in 1913.

TIDES.

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

applied to Reconstruction of ChM 278 May 1945 #7A