

83  
SHA  
1912  
B

3403

C. & G. SURVEY,  
LIBRARY AND RECEIPTS  
DEC 28 1912  
Acc. No

Diag. Cont. No. 1210-2

Department of Commerce and Labor  
COAST AND GEODETIC SURVEY

Superintendent.

State: *Mass*

DESCRIPTIVE REPORT.

*Hyd.* Sheet No. *3403*

LOCALITY:

*Narragansett Bay  
Western Passage*

1912

CHIEF OF PARTY:

*J. B. Boutelle*

11-4645

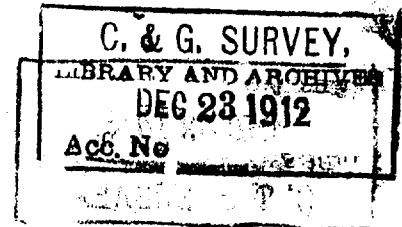
3403

**3403**

Department of Commerce and Labor

Coast and Geodetic Survey

O.H. Tittmann, Superintendent.

DESCRIPTIVE REPORTTo Accompany Hydrographic Sheet No. 510 #1

NARRAGANSETT BAY, R.I. - WESTERN PASSAGE

Coast and Geodetic Survey Steamer "Endeavor"

J.B. Boutelle, Assistant, C. &amp; G. Survey,

Chief of Party.

1912.

Methods of Survey

The ship was used wherever possible as the deep soundings by hand-lead were more easily obtained and with greater accuracy than otherwise, the position numbers of this work are in red ink.

Whaleboat and launch hydrography are shown in green and blue inks respectively. This work is along shore or in shoal localities. It was found that the compass was of little use in the boat in running lines and as the country afforded good ranges, the latter method was mostly used.

An inspection of the record shows that in several instances eleven fathoms was recorded as seven and sometimes 0.K'd by the recorder. As seven and eleven sound nearly alike it is possible

for both recorder and leadsman to misunderstand each other, especially when the wind is making it difficult to hear. On plotting these soundings it would appear that eleven fathoms was correct in every case. Two of these localities were sounded over again with no trace of less than ten fathoms and soft bottom.

The doubtful soundings are 80 - 81 f, 137 - 138 E and 62 - 63 H. It is therefore recommended to reject these 7 fathom soundings and make an examination by wire drag.

Dangers, Inshore and Otherwise

A twenty-three ft. spot was discovered about one-half mile S.E. x E. from Plum Beach Light, it borders on the eastern side of a deep belt of water between Plum Beach Shoal and the eastern shore of the passage.

No additional rocks were found on the north and west side of Dutch Island other than those shown on previous charts.

<sup>2 ft</sup> A rock, 13 e near 24 a and about 100 meters W.S.W. from West Jamestown wharf was pointed out by the ferry boat Captain. He struck it once backing out from the slip at West Jamestown.

Several rocks lying inshore along the bonnet are: 84 o, 89 o, 85 o, 88 o and 90 o and an uncharted rock with 7 ft. over it between 20 o and 21 o, lying about 220 meters south of the southern end of the Bonnet, all pointed out by Mr. Eaton a fisherman living at Saunderstown. Some of the former rocks are also uncharted. All the data pertaining to the depth over the rocks etc will be found in sounding record.

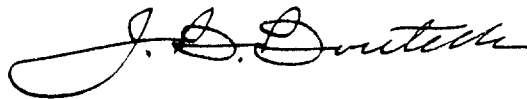
3.

The soundings plotted on the lower part of the sheet show a marked difference from those on former charts.

Ten ft. was the least water obtained over Jones Ledge by drifting over it with launch, although nine feet is given by former surveys.

A number of new wharves and a small amount of shore line was added and is indicated on the sheet in black ink.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read "J. S. Dutton".

Assistant, C. & G. Survey,

Chief of Party.

C. & G. SURVEY  
 LIBRARY AND ARCHIVE 1  
 DEC 23 1912  
 Acc. No

STATISTICS  
 =====

To accompany Hydrographic Sheet No. 3403.

NARRAGANSETT BAY, RHODE ISLAND - WESTERN PASSAGE

From September 20th to October 23rd, 1912.

Coast and Geodetic Survey Steamer "Endeavor"

J.B. Boutelle, Assistant, C.& G. Survey,

Chief of Party

Date	Vol.	Letter	Positions	Soundings	Miles	Boat
Sept. 20, '12	1	A	71	398	13.0	Endeavor
21		B	110	629	19.5	"
23		C	154	717	28.0	"
24		D	100	397	15.5	"
24	2	D	101	501	15.5	"
25		E	186	781	26.7	"
26		F	154	618	16.8	"
26	3	F	54	166	6.7	"
27		G	167	479	18.0	"
28		H	79	220	8.5	"
30	4	a	43	293	4.5	Launch 44
Oct. 1		b	175	817	19.5	"
2		c	103	418	14.0	"
Carried forward -----			1497	6434	206.2	

Date	Vol.	Letter	Positions	Soundings	Miles	Boat
Brought forward ----			1497	6434	206.2	
Oct. 3, '12	4	d	64	320	8.0	Launch 44
3	5	d	97	528	10.0	"
4		e	156	841	17.7	"
5		f	89	468	12.8	"
7	6	g	160	871	22.0	"
8		h	176	800	25.5	"
10	7	a	35	315	3.6	Whaleboat
11		b	37	368	3.7	"
14	6	i	35	189	3.0	Launch 44
14	8	i	25	145	3.5	"
15		k	54	282	4.4	"
15	7	c	43	284	3.8	Whaleboat
16	8	l	149	572	9.8	Launch 44
17		m	16	56	1.4	"
17	7	d	36	210	2.8	Whaleboat
22	3	J	110	435	8.3	Endeavor
23	9	K	27	94	2.0	"
Totals -----			2806	13212	348.5	

S U M M A R Y

	Miles	Sdgs.	Pos.	Area Sq. Miles
Steamer "Endeavor" -----	178.5	5435	1313	
Launch 44 -----	156.1	6600	1342	10.5
Whaleboat -----	13.9	1177	151	
Totals -----	348.5	13212	2806	10.5

Respectfully submitted,

*J. A. Scutelle*  
Chief of Party, C. & G. S.

4/11  
6/15

## POSITIONS.

State RHODE ISLAND

AZIMUTH. ° ' "	BACK AZIMUTH. ° ' "	TO STATIONS.	DISTANCE. Meters.	LOGARITHMS.
<p>Department of Commerce and Labor Coast and Geodetic Survey O.H. Tittmann, Superintendent</p>				
<p><u>G E O G R A P H I C - P O S I T I O N S</u></p>				
<p><u>Hydrographic Signals</u></p>				
<p>1 9 1 2</p>				
<p>Narragansett Bay, Rhode Island, Western Passage</p>				
<p>Coast and Geodetic Survey Steamer "Endeavor" J.B. Boutelle, Assistant, C. &amp; G.S., Chief of Party.</p>				

Do not write in this margin.



## GEOGRAPHIC

Locality

NARRAGANSETT BAY,

Western Passage

Datum.

11-676

STATIONS. 1912	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.
	°	'	"		°	'	"	
✓ FOX (1912)	41	33	16.27	501.9	71	25	04.28	99.2
✓ QUONSETT 4 (1912)	41	35	18.67	576.0	71	24	23.54	545.3
✓ SEAL	41	35	52.91	1632.3	71	22	23.36	541.1
✓ ALLEN	41	36	58.20	1795.5	71	24	33.71	780.6
✓ SAND	41	33	28.23	870.9	71	23	05.24	121.4
✓ *POND	41	31		1447	71	25		4
✓ †WASH (whitewashed rock)	41	31		1653	71	23		585
✓ *GAB (west gable of house)	41	32		1414	71	23		270

\*Position determined by plane table

† " " " sextant angles.

Do not write in this margin.

# POSITIONS.

State RHODE ISLAND

AZIMUTH.

BACK AZIMUTH.

TO STATIONS.

DISTANCE.

Meters.

LOGARITHMS.

Department of Commerce and Labor  
Coast and Geodetic Survey  
O.H. Tittmann, Superintendent.

G E O G R A P H I C - P O S I T I O N S

Hydrographic Signals

1 9 1 2

Narragansett Bay, Rhode Island, Western Passage

Coast and Geodetic Survey Steamer "Endeavor",  
J.B. Boutelle, Assistant, C.& G.S.,  
Chief of Party

Do not write in this margin.

GEOGRAPHIC

Locality NARRAGANSETT BAY,

Western Passage

Datum.

11-876

STATIONS. 1912	LATITUDE.			Seconds in Meters.	LONGITUDE.			Seconds in Meters.
	°	'	"		°	'	"	
✓ROME	41	32	51.33	1583.6	71	25	30.70	711.8
✓NET	41	27	46.19	1425.0	71	23	59.66	1384.6
✓WINDMILL	41	27	48.37	1492.2	71	25	55.95	1298.5
✓FLAG (Dutch Id. Flagstaff 1912)	41	30	13.38	412.8	71	23	59.86	1388.3
*POND	41	31		1447	71	25		4
*CASEY	41	30		1427.5	71	24		1261.5
†ROCK (whitewashed rock)	41	28		927	71	25		138
†TRY (whitewashed rock)	41	30		277	71	22		1355
*NAN	41	31		234	71	23		778
†WASH (whitewashed rock)	41	31		1653	71	23		585
*GAB (west gable of house)	41	32		1414	71	23		270
* Position determined by plane table								
† " " " sextant angles.								

Do not write in this margin.

## POSITIONS.

State

RHODE ISLAND

AZIMUTH.			BACK AZIMUTH.			TO STATIONS.	DISTANCE.	LOGARITHMS.
°	'	"	°	'	"		Meters.	
160	01	06	340	00	37	Wickford Har.Lt.Ho.	2967.5	3.47239
236	53	58	56	56	05	Conanicut Id.Lt.HO.	5278.0	3.72247
173	50	27	353	50	15	Dutch Is'd Lt.Ho.	3790.6	3.57870
194	39	49	14	40	04	Hill	2082.4	3.31856
238	52	07	58	53	39	Hill	3767.9	3.57610
271	25	00	91	26	17	Net	2699.7	3.43131
348	06	37	168	06	52	Hill	2581.4	3.41185
359	56	27	179	56	27	Net	4540.6	3.65711

Do not write in this margin.

# GEOGRAPHIC

*Locality*

*Datum.*

11-676

STATIONS.	LATITUDE. °   '   ''	Seconds in Meters.	LONGITUDE. °   '   ''	Seconds in Meters.	

Do not write in this margin.

## POSITIONS.

State

RHODE ISLAND

AZIMUTH.			BACK AZIMUTH.			TO STATIONS.	DISTANCE.	LOGARITHMS.
°	'	"	°	'	"		Meters.	
141	09	33	321	08	46	Wickford Har.Lt.Ho.	2592.8	3.41377
240	59	20	61	01	09	Conanicut Id.Lt.Ho.	4365.9	3.63907
300	08	51	120	10	13	Conanicut Id.Lt.Ho.	3313.7	3.52031
14	02	11	194	01	44	Fox 1912	3892.4	3.59022
358	17	36	178	17	38	Conanicut Id.Lt.Ho.	2722.2	3.43492
69	13	56	249	12	36	Quonsett 4	2977.1	3.47380
303	42	17	123	43	44	Seal	3628.7	3.55975
355	36	51	175	36	58	Quonsett 4	3079.4	3.48846
82	23	17	262	21	58	Fox 1912	2783.2	3.44455
151	58	24	331	57	32	Quonsett 4	3859.9	3.58658

Do not write in this margin.

# GEOGRAPHIC

*Locality*

11-876

*Datum.*

STATIONS.	LATITUDE. °   '   ''	Seconds in Meters.	LONGITUDE. °   '   ''	Seconds in Meters.	

Do not write in this margin.

VEC  
Jan. 17, 1913

HYDROGRAPHIC SHEET 3403.

*CC 112*

Western Passage, Narragansett Bay, Rhode Island, by  
Assistant J. B. Boutelle in 1912.

TIDES.

	Wickford ft.	West Jamestown ft.
Mean low water, or plane of reference on staff	1.3	1.7
Lowest tide observed " "	0.0	1.2
Highest " " " "	6.6	6.9
Mean range of tide	4.1	3.6

Coast and Geodetic Survey

JAN 17 1913

TIDAL DIVISION



Hyd. Sheet 3403

The positions were plotted in the field - The numbers of the positions in many cases are placed too close to the position which were obliterated when soundings were plotted and inked, in many cases the numbers were too small -

The soundings were plotted in the office by a field man - but little attention was paid to spacing by time, which necessitated replotting before some could be inked -

The area covered by this sheet is well developed and the records are well kept - with the exception that the "Remarks and Course" column should be used more in describing local objects and conditions at ends of lines and in passing landmarks.

P. B. Coates.

7/1/14.

Numerous rocks throughout this sheet which are shown on Hyd. Sheets 786+992 have not been located or developed. (see tracing attached)