

3572

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

Superintendent.

State: R. I.

DESCRIPTIVE REPORT.

Hydrographic Sheet No. 3572

LOCALITY:

Narragansett
Bay.

Hope Island to Warwick
Neck and Greenwich Bay

1913

CHIEF OF PARTY:

J. B. Boutelle

11-4645

3572

A

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

To Accompany Hydrographic Sheet No. (8572 No. "A")

Narragansett Bay, Rhode Island

Hope Island to Warwick Neck and Greenwich Bay

1 9 1 3 .

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. A number of new rocks were located on the north side of Patience Island. They are shown in red ink on the boat sheet. *

Rivers:

The rivers opening into the bay on the area of this sheet are of no special importance; they are only used by small fishing or pleasure boats. Greenwich Cove in the summer time is largely used as a harbor for yachts drawing not over 8 or 9 feet of water and occasionally an excursion steamer stops here.

Names:

The only change in name found is that of Potom^Womut River; this seems to be known locally as Green River.

Shoreline:

Changes in the shoreline are shown at Long Point entrance to Greenwich Cove, Chipponogset Island, Buttonwood, Oakland Beach and southwest side of Warwick Neck.

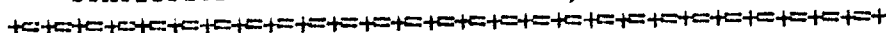
Data:

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

- * The beacon shown on chart 353, 1 mile S.W. of Warwick Lighthouse has been destroyed a number of years ago. It has been replaced by an iron spindle set on the foundation of the old beacon. The geographic position of the spindle is practically the same as that given for the beacon.

J. D. Donelle
Assistant C. & S.
Comd'g. U.S. Endeavor

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



Date 1913	Letter	Vol.	Pos.	Sdgs.	Miles	Vessel
July 9	A	1	86	731	18.0	Endeavor
10	B	1	71	630	15.0	"
11	C	1 & 2	150	1175	30.0	"
12	D	2	76	608	14.5	"
14	E	2	139	1117	26.6	"
25	F	2 & 3	96	607	15.5	"
26	G	3	64	548	13.3	"
28	H	3	47	444	12.0	"
30	I	3	111	827	20.5	"
Aug. 1	K	6	31	246	6.2	"
2	L	6	104	633	14.5	"
July 29	a	4	149	1357	26.0	Launch No. 44
31	b	4 & 5	154	1045	20.0	"
Aug. 1	c	5	66	468	8.0	"
4	d	5	134	1090	16.0	"
5	e	5 & 7	128	722	14.0	"
6	f	7	133	1132	15.8	"
7	g	7 & 8	149	1178	19.0	"
8	h	8	68	761	12.1	"
9	i	8	92	1012	14.5	"
11	k	9	105	981	17.1	"
12	l	9	126	1332	25.0	"
13	m	10	87	926	9.0	"
14	n	10	99	701	11.0	"
15	o	10	16	129	1.8	"
16	p	11	18	171	1.2	Dinghy
19	q	11	44	522	4.5	Whaleboat
21	r	11	7	7	-	Launch No. 44
Totals -----		11	1550	21100	401.1	

Total Area "A" sheet --- 18 $\frac{1}{2}$ sq. miles.

GEOGRAPHIC

Locality Narragansett Bay

Sheet A

Datum.

11-676

STATIONS.	Name used in Hydro ^D Record.	LATITUDE. " ' "	Seconds in Meters.	LONGITUDE. " ' "	Seconds in Meters.	
Sandy Point 1863-1913	Sandy	41 39 43.29	1335.5	71 24 37.15	859.4	
Warwick Lt. Ho. '97-'13	War	41 40 01.44	44.4	71 22 42.30	1001.7	
Patience 1843- ⁹ 1813	Patience	41 39 33.47	1032.6	71 21 24.58	568.7	
Bight 1913	Bight	41 37 31.22	963.2	71 19 36.02	833.9	
Den 1913	Den	41 37 56.28	1736.3	71 20 56.41	1305.7	✓
Pat 1913	Pat	41 39 06.96	214.7	71 21 45.56	1054.3	✓
Bell 1913	Bell	41 39 36.97	1140.5	71 21 59.25	1370.8	✓
Old R.I. Yacht Club (Pole on cupola) 1913	Club	41 37 59.36	1831.3	71 19 57.96	1341.6	✓
Fence 1913	Fence	41 38 12.98	400.4	71 24 30.41	703.8	✓
Pojao 2 1913	Pojao 2	41 39 03.92	120.9	71 24 29.05	672.2	✓
Wall 1913	Wall	41 39 47.11	1453.4	71 24 34.47	797.4	✓
Flagstaff (Shepley's) Warwick Neck	Flag	41 40 20.88	644.2	71 23 23.53	544.3	✓
Butt	Butt	41 41 03.31	102.1	71 24 59.49	1375.9	✓
Sally	Sally	41 40 15.72	485.0	71 25 33.80	781.9	✓
Chip	Chip	41 40 24.58	758.3	71 26 31.79	735.3	✓
Long	Long	41 40 01.14	35.2	71 26 26.57	614.7	✓

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GEOGRAPHIC

Locality
 11-56

Narragansett Bay

Sheet A

Datum.

STATIONS.	Name used in Hydro ^g Record	LATITUDE. " " "	Seconds in Meters.	LONGITUDE. " " "	Seconds in Meters.	
Cedar	Cedar	41 41 16.56	510.9	71 26 35.08	811.2	✓
Oak	Oak	41 40 57.00	1758.5	71 23 27.14	627.7	✓
White House, so.gable (pole on gable)	Pole	41 41 11.15	343.9	71 25 39.99	924.8	✓
Oakland Beach flagstaff	Beach	41 41 05.76	177.7	71 24 00.05	1.2	✓
House, red cupola		41 40 31.61	975.2	71 23 25.08	580.1	✓
Spindle	Spin	41 39 25.03	772.2	71 23 36.18	837.1	✓
Red Windmill	Red	41 39 48.43	1494.1	71 25 25.00	578.4	✓
East Greenwich Court Ho. pole on cupola	Court	41 39 43.80	1351.2	71 2 2 ⁷ 03.39	78.4	✓
East Greenwich Lutheran Church, spire, cross	Lut	41 39 49.20	1517.8	71 27 20.08	464.6	✓
Apponaug, Court House, cupola, vane	Court	41 41 57.16	1763.4	71 27 32.68	755.7	✓
Apponaug, Yellow Chimney	App	41 41 59.26	1828.2	71 27 42.14	974.4	✓
East Greenwich, Brick Chimney. Ferecup Beach Co <i>Starch</i>	Brick	41 39 51.93	1602.1	71 26 46.21	1069.0	✓
East Greenwich, Yellow Chy. Boston Wms Siding Co	Yellow	41 39 52.00	1604.2	71 26 54.58	1262.7	✓
Buttonwood Water Tower	Wood	41 41 05.42	167.2	71 24 45.44	1051.0	✓
<u>GREENWICH COVE</u>						
Flag "A" (Long Pt.)	Flag A	41 39 +	1846	71 26 +	674	✓

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POSITIONS.

State

AZIMUTH.		BACK AZIMUTH.		TO STATIONS.	DISTANCE.	LOGARITHMS.
°	'	°	'		Meters.	

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GEOGRAPHIC

Locality Greenwich Cove, Narragansett Bay (cont.)

Sheet
 Field No. A

Datum.

12 76

STATIONS.	Name used in Hydro ^g Record	LATITUDE. " " "	Seconds in Meters.	LONGITUDE. " " "	Seconds in Meters.	
Flag "B"	Flag B	41 39 +	1485	71 26 +	678	✓
Flag "C"	Flag C		1141	26	740	✓
Flag "D"	Flag D		644	26	848	✓
Flag "E"	Flag E		262	26	1289	✓
Flag "F"	Flag F		386	27	87	✓
Flag "G"	Flag G		869	26	1177	✓
Flag "H"	Flag H		1167	26	975	✓
E.G.Y.C. Flagstaff	East		1483	26	1030	✓
Yellow House, chy.	House		1057	26	1087	✓
Tank	Tank		885	27	248	✓
Spire, gilt cross			835	27	146	✓
Barn, vane on cup.	Vane		563	27	50	✓
R.R. Switch H. Chy.	Switch	41 39 +	332	71 26 +	259	✓
Water Tower, Patience Id. 1912	Water	41 39 27.53	849.3	71 21 32.96	762.7	✓

Do not write in this margin.

GEOGRAPHIC

Hydrographic Sheet, Field No. "A".

Locality
 11-113

Narragansett Bay, Rhode Island.

Datum.

STATIONS determined by plane table A'n	LATITUDE. " "	Seconds in Meters.	LONGITUDE. " "	Seconds in Meters.	
POTOWOMUT or GREEN RIVER					
Flag "I"	41 39	205	71 24	674	
Flag "K"	39	495	25	000	
Flag "L"	39	727	24	971	
Flag "M"	39	650	24	1357	
Flag "N"	39	626	25	445	
Flag "O"	39	414	25	530	
Flag "P"	38	1838	25	1079	
Flag "Q"	39	174	25	1108	
Flag "R"	41 39	121	71 25	1334	

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POSITIONS.

State

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

VEC
Apr. 9, 1914.

HYDROGRAPHIC SHEET 3572.

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

TIDES.

	East Greenwich ft.
Mean low water, or plane of reference on staff	1.5
Lowest tide observed " "	0.2
Highest " " " "	7.3
Mean range of tide	4.4

EXAMINATION OF HYDROGRAPHIC SHEETS
by the
Sections
DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 3572

1. + Are numbers of hydrographic sheets adjoining limits of work shown?
2. Are transferred soundings of adjacent hydrographic sheets made to show that ground has been covered?
3. + Is sheet of proper size?
4. + Is sheet well laid out, no additions required?
5. Are limits of hydrography regular?
6. + Are positions of signals accentuated by light dot of black ink to assist plotting? *No*
7. + Are tidal stations plotted on sheet? *No*
8. Is area of work completely covered?
9. Are critical soundings and dangers shown distinctly?
10. + Is the control good?
11. + Are positions of signals clearly shown?
12. Are soundings well distributed?
13. Are shoals carefully and sufficiently developed?
14. Do soundings cross satisfactorily?

- 15. Is existence or non-existence of a reported shoal determined?
.....
- 16. Is least sounding over bar probably determined by check soundings or diagonal sounding lines crossing same?
.....
.....
- 17.+ Are projection and plotting checked?
- 18. Is the scale of this sheet sufficient to show the necessary details in the navigable channels?
- 19. +Is the shoreline shown?
- 20.+ Is there an accompanying list of plane table or sextant positions of signals?
- 21. Has sufficient attention been given to the development of channel? *No - N end of channel between Warwick Lt and A Bell*
- 22. Are sufficient bottom characteristics shown?
- 23. Are sounding lines normal to coast?
- 24. Have suspicious soundings been investigated? *No*
- 25. Are ranges or bearings given for important shoals? *10 ft boulders 1/2 mi WSW Warwick Lt, 14 ft " 1/4 mi ESE*
- 26.. Are sailing directions given? *No*

- 27. Is the general hydrography in the entire area properly developed?
- 28. Are shallow channels for motor boats sounded?
- 29. Is there a note as to coloration of water in or near mouths of rivers and bays? *No*
- 30. Is there any information given as to obtaining fresh water? .. *No*
- 31. Are there proper intervals between soundings?
- 32. Are projecting points of land and reefs determined by sufficient lines with soundings at close intervals run at right angle to direction of points?
- 33. Is there sufficient data to draw depth curves?
- 34. Are shoal areas remote from shore properly developed by independent system of buoy signals placed in the vicinity of shoal?
- 35. Are soundings obtained at docks in harbor?
- 36. * Is there a full list of data effecting sheet given? *No*
- 37. Are description of hydrographic signals and marking of same recorded? *No*
- 38. Is there a list of land marks given? *No*

- 39.+ Does descriptive report give date of instructions? *No*
-
- 40. Are small islets and rocks distinctly shown?
- 41. Is information relative to anchorage given?
- 42.+ Are survey methods explained sufficiently?
- 43. Are geographical names given on sheet?
- 44. Are coast pilot notes given?
- 45. Is the unit of soundings given in title?
- 46. Are sufficient depth curves shown?
- 47. Are aids to navigation shown?
- 48. Are grass or kelp indications shown?
- 49. Are sailing courses shown on sheet? *No*
- 50. Is descriptive note given as to visibility of shoals?
-
- 51. Are dangers fully described in descriptive report?
-
- 52. Is the character of reefs described on sheet? *No*
-
- 53. Are beaches indicated where vessels in distress could be safely beached?
- 54. Are standard symbols used in drafting?
- 55. Is information relative to currents given?
- 56. Is there a statement as to certainty or probability of least depth over dangers given? *No*
- 57. Is the existence of certain shoals doubtful?
- 58. Is a general description of coast given?

- 59. Is information relative to commercial importance given?
- 60. Does the descriptive report cover one or a moderate number of sheets?
- 61. Are descriptions of headlands given?
- 62. Is the nature of shoals whether coral rock or sand shown on sheet?
- 63.+ Is the position of the tide gauge well selected? Is the tidal data sufficient for the reduction of soundings over the area of the sheet?
- 64.+ Have projection lines been numbered around all the edges? ...
- 65.+ Has the geographic position of one of the triangulation points on the sheet been inked near the bottom edge of the sheet?
- 66. Was the speed of the sounding boat such as to allow vertical readings of the leadline?
- 67. Were lines of soundings run along the axis of narrow channels?
- 68. Have rocks or shoals seen from the sounding boat in passing been definitely located?
- 69. Have charted shoals reefs, or rocks been investigated?
- 70.+ Have sounding records been kept in approved form?

71. Are Wire drag surveys required? *Yes*

72. Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?

Other Remarks

The forgoing points marked by a cross (+) and the following additional points are to be considered for wire drag hydrographic sheets.

73. What additional areas, if any, in the locality covered by the sheet should be dragged?

74. Number of small areas inside limits of work missed by drag (few, moderate number, numerous)

75. Are shoals discovered with drag clearly shown?

76. Were shoals later covered by drag set at suitable depth?

77. Are all areas missed by drag clearly shown?

78. Are overlaps ample?

79. Do effective depths conform to instructions under which the work was done?

80. If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform to the present practice?

81. Are all shoals discovered shown on current issue of chart?

304
FEB 1919

Hydro Sheet #3572.

The records are well kept. The area covered by this sheet, with a few exceptions, is well developed, a few additional lines east of Warwick L.H., north + west of sta. Spindle and southwest of sta. Bell. would ^{have} helped greatly in determining the limits of shoal water -

The positions were plotted in the field

P.B. Carter.

Nov. 17 - 1914.

LIBRARY

Place with descriptive report
of hydrographic sheet No. 3572

S.P.
Drawing Section.

Hydrographic Sheet 3572

Referred to Chart Division for following additions and corrections:-

- 1.- The shoreline has been revised in five places. The new shoreline should be shown in color, with an appropriate note.
- 2.- Ink names and symbols of old Δ points.
- 3.- Add, in color, marginal hydrography from hydrographic sheets 3404, 3565 and 3571.
- 4.- All dangers, and hydrography of uncharted areas, should be transferred from the old sheets to 3572.
- 5.- Add names of geographic features.

This sheet has not been applied to chart

351.

Errors of 1 or 2 feet in many soundings have resulted in eccentricities of curves that mis-represent the bottom. These eccentricities should be ignored by the draftsman in applying this sheet to the charts.

E. P. Ellison

Nov. 10, 1915.

NAUTICAL CHARTS BRANCH

SURVEY NO. 3572

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
May 1945	Reconst. 278	A. F. Stegman	Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.