8315

Diag. Cht. No. 1210-3.

Form 50

U. S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-1756 Office No. H-8315

LOCALITY

State Rhode Island

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General locality Approaches to Narragansett Bay Locality East of Point Judith Neck

1956

CHIEF OF PARTY

M. T. Paulson

LIBRARY & ARCHIVES

DATE September 18, 1958

USCOMM-DC 5087

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

REGISTER No.H-8315

Field No. ECFP-1756

State	RHODE ISLAND	
General locality	East of Point Judith Neck	
	DACHES TO NARRAGANSETT BAY	
Scale 1:12,500	Date of survey 26 July to 31	Oct. 1
Instructions dated	31 January 1956	
VesselEA	ST COAST FIELD PARTY - LAUNCH CS-82	
Chief of party	MARVIN T. PAULSON	
Surveyed by	O.L. CAMPBELL & R.A. LEWIS	
Soundings taken by KXXX	XXX, graphic recorder, hand lead, vXXX	
Fathograms scaled by	PARTY PERSONNEL	
Fathograms checked by	NORFOLK DISTRICT OFFICE	· · ·
Protracted by	W.L. JONNS	·
Soundings penciled by	W.L. JONNS	·
Soundings in XXXXXX	s feet at MLW MONIX and are true de	oths
REMARKS:		
·		
X. W. W. 11/1/91	U. S. GOVERNMENT PRINTING OFFICE 16—66520—1	

DESCRIPTIVE REPORT TO ACCOMPANY

HYDROGRAPHIC SURVEY H-8315, FIELD NO. ECFP-1756 Entrance Narragansett Bay, Rhode Island

PROJECT 13870

12,500 SCAIE 1: 10,000

EAST COAST FIELD PARTY

1956

MARVIN T. PAULSON, CH. OF PTY.

SURVEYED BY: D.L. Campbell and R.A. Lewis

A. PROJECT Work on Project 13870 was executed in accordance with Instructions / 22/MEK, FP-East Coast dated 31 January 1956.

B. SURVEY LIMITS AND DATES

The area covered by this survey is at the entrance to Narragansett Bay, from about four miles off-shore to the approaches of West Passage.

The limits are from a line (lat. 41° 21.6N, long. 71° 27.3W to lat41° 25.0 long. 71° 19.5W to lat. 41° 26.0N, long. 71° 22.9W) on the south and east to lat. 41° 26.5N on the north and long. 71° 27.3 on the west.

A shoal investigation (Item No. 11b Preliminary Review) at lat. 41° 20.3, long. 71° 28.5 was made on an insert on this sheet.

Field work on this sheet began 26 July and ended on 31 October (1939)

1939 1956. This survey makes junction with survey H-6443, scale 1:40,000 to the south; with survey H-6444, scale 1:40,000 to the east; and with survey H-7640, scale 1:10,000 to the west. Along the northern limit this survey is joined by contemporary survey Field No. ECFP-1856 which was not completed during this field season.

Storms and high seas halted field work on this sheet just prior to the close of the field season. Twice during the field season Hurricane reports interrupted field work and the launch was returned it be returned to a storm mooring at East Greenwich, Rhode Island.

C. VESSELS AND EQUIPMENT

Launch CS-62 was used for the entire survey based first at Snug Harbor, Point Judith, Rhode Island and then at Wickford, Rhode Island. Launch CS-82 a 30 footwooden launch has a turning radius of 50 meters at half rudder and standard speed.

The following fathometers were used;

TYPE EDO "255" 808 J

SERIAL NO. #202 #77

Both fathometers were used in depths up to about 105 feet.

D. TIDE AND CURRENT STATIONS EA tide station at Monahans Cove Marragansett, Rhode Island, lat. 41 25.35%, long. 71 27.35%, was used without time or range correction in reducing soundings. The Monahan Cove tides were available from 7/24/56 to 9/14/56. Where Monahan Cove tidal data was not available, Providence State Pier No.1 tides were used in accordance with On smooth sheet tide reducers from Newport were used instead 35 - Providence State Per - Sector 112 letter 36-11-15b.2 dated 1/29/54.4 36-380-15b dated 8/16/56.

See Tide Note.

No current stations, within the limits of this survey, were occurried this season.

E. SMOOTH SHEET

The smooth sheet projection, signal transfer and hydrographic plot will be made by the Norfolk Processing Office. This section will be covered by a report from thier effice.

F. CONTROL STATIONS

STATION

The following triangulation control was used on this survey:

U.F. PAGE	AOT'NO.	CH.OF PTY.
. 41	1	R.I.Geod.S.
•	ī	P.L.B.
· ·	ī	(U.S.E.)
	ī	(v.s.z.)
	ī	F.N.
_	ī	P.L.B.
40	ī	S.C. McC.
139	ī	R.I.Geod.S.
	41 41 41 39 86 40 40	41 1 41 1 39 1 86 1 40 1

(1954) [11 topographic control was located on photogrammetric manuscripts T-114 and T-11438 using standard photogrammetric methods. This control was lecated by Photo Party No.1 based at Providence, Rhode Island.

G. SHORELINE AND TOPOGRAPHY

Shereline and topographic detail was obtained from photogrammetric mamseripts T-11438 and T-11432, T-1/433 & T-1/434 of 1954

There were no changes in shoreline er tepographic detail during this survey from that shown on the above mentioned mamuscripts.

The low water line was not defined due to steep slopes and rocky shoreline cenditions. Lines are run inshore as close as SAFETY PERMITS.

H. SOUNDINGS

All soundings on this sheet were made by fathometers as listed in section C, except for a few detached soundings taken in connection with bottom sampling or shoal investigation when a lead line was used.

It should be noted that soundings shown on the boat sheet did not have velocity corrections applied and in some cases may be in error by as much as 2 or 3 feet. This error will resolve itself when the smooth sheet is made.

I. CONTROL OF HYDROGRAPHY

All hydrographic control was visual by sextent angles on shore objects. Positions were usually taken at one and one half mimute intervals.

J. ADEQUACY OF SURVEY

This survey is complete within the limits defined and adequate to be a superfiede all prior surveys for charing purposes, except for a shoal in PSH4 the vicinity of lat. 41 25.2 long. 71 21.0. Although this area was IFR developed, two additional splits should have been run. Adverse weather conditions prevented this before the close of the field season.

H-7029 WD

Item No. 11s of the Preliminary Review falls on this sheet in the vicinity of lat. 41° 22.1N long. 71° 23.3W. Investigation of this area could not be made before the close of the field season due to rough seas caused by the winter storms.

Junctions with adjoining surveys appear to be in good agreement and depth curves can be drawn when the necessary velocity corrections

are applied.

K. CROSSLINKS

About 38.4 nautical miles of sounding lines were organines or about 9.8% of the total.

REVIEW

On the boat sheet discrepancies of about 15 were noted where level 2 bottom was found. A larger discrepancy will be found where lines run using the 806 cross lines using the KDO fathometer, as the velocity correction had not been applied. The velocity correction for the KDO is larger than for the 806 fathometer.

L. COMPARISON WITH PRIOR SURVEYS

This survey was compared with prior survey H-1789, 1:10,000, 1887 500 and survey H-1787, 1:40,000, 1887, In general, the soundings shown on FS the old survey are in fair agreement with those on the new. Since the | of old survey was not as complete as the new, much of the necessary detail Review was not shown. Several shoals were found that were not apparent on the prior survey and are listed in section N of this report.

It is believed that all known shoals were proved. In most cases

lesser depths and/or a slightly different location was found.

Junctions with prior surveys are in fair agreement. See section H regarding soundings as shown on the boat sheet.

M. COMPARISON WITH CHART

A comparison with Chart No. 236, 8th edition Jamuary 1953, print date 9 August 1954, and Chart No. 1210, 6th edition print date 27 June 1955, shows no important differences except those listed in section VA 1955, shows no important differences except those listed in section I Noview of this report.

N. DANGERS AND SHOALS

Fellowing is a list showing a comparison with the prior surveys, a comparison with the charts as well as the dangers and shoals found within the limits of the survey. The locations and depths listed under "Present Survey" are taken from the boat sheet and may change slightly when the smooth sheet is made.

NO.	LONGITUDE &	POSITION	(Present (Survey	CHARTS	PRICE SURVEYS	RECOMMENDATIONS AND REMARKS
1.	41° 25.23N 71° 27.20W	95k Vol.6	rk av MW	net shown	not shown	Chart rock awash
√ 2 •	41° 26.38N 71° 26.13W	49ha vol.15	RK (L.L)	6	6	Chart new depth
√3.	41° 26.16W 71° 27.05W	30x vol.10	y Rk	10	10	Chart new depth

				DEPTH		
	LATITUDE &	POSITION	(PRESENT (SURVEY	CHARTS	PRIOR SURVEYS	RECOMMENDATIONS AND REMARKS
√4.	41° 25.34N 71° 27.09W	54,60 a ed 108 vol.7	Au o	56 36	36	Sunkey barre loaded with poch
5.~	41° 26.13¥ 71° 26.19¥	71 da vol.13	9 ′	14	14	Chart new depth
6.	41° 26.06% 71° 26.24%	70da vol.13	18	24	32	Chart new depth .
7.	41° 26.23N 71° 25.76W	95da vol.13	8 1918	59	59	Chart new depth
	41° 25.37% 71° 26.05W	46da vol.13	20	24	73	Chart new depth
9.~	41° 25.90N 71° 26.24N	24 aa vol. 12	23	29	29	Chart new depth
10.	41° 25,35% 71° 21,04%	153fa vol. 14	43	[42]	42 /	"Chart old depth "
11.	41° 25.26H / 71° 21.04H / 25.25 (71° 23	154fa vol. 14	45	42/	/42/	Not developed
- 12	25 25 % 77 23 2. 41° 26,241 71° 23,254	70 /FE 6/ F 29aa Vol.12	33	82	82	Chart new depth
13	71° 25.5811	79. Tel.3	56 59	60	80	Chart new depth
	71° 22, 111°	99-100g	,	73	73	*Chart old depth Subtraction of a Control of the Co
	3 - 7/21/91 - 41° 22.61N 71° 25.35W	72 ++ 14-150 vol.2	103	108	104	Chart new depth found
16,	41° 24.308 71° 22.4085	35ca vel.13	93	vreck 56	100	**Not found
17	7. 41°20.30N 71°28.39W	1-61p vol.7	45'	ebet.	44	**Not found (insert)
	$ \mathcal{A} T$			•		

"Further development required
"Wire drag required to disprove charted sounding

All charted dangers and shoels were found as charted except those listed above. In most cases a shoeler depth and a slightly different location was found.

O. GOAST PILOT IN CROATICH There is one Change necessary in the Coast Pilet Notes. This is reported in a Coast Filet Report (Appendix E), a copy of which is attached.

P. AIDS TO HAVIGATION See report on form 567. Following is a list of all floating aids to navigation:

NAME OR NUMBER	LATITUDE &	DEPTH OF VATER	YOL. & POS.	DATE
#497 Brenton Reef 14ght Ship	71° 25.71¥ 63	8 -	vel. 9 606_	9/21/36 refrence
Torpedo Range Bell Bony F	41° 23.06¥ 71° 24.06¥	103	vel. 1 24s	remark only.
Terpede Range Bell Bony G	41° 23.668 69 71° 24.068 69	101	vel. 14 6 ga	10/30/56
Terpede Range Bell Bouy K	41° 24.72¥ 73 71° 23.99¥ /	100 /	vel. 1 37a	7/26/56
River Ladge Bouy 1	41° 26.07% / 71° 26.16% /	324	vel. 12 81ba	10/9/36
Newton Rook Bell Boxy	41° 26.65% 43 71° 24.18% 19	3 5	vel. 10 lw	10/2/56

Q. IANDMARKS FOR CHARTS There are no new landmarks for charts to report.

R. GEOGRAPHICAL HAMES

There are no new goographical names to report. Check Rk names in acea affoliare
afino Narrows - error
one T-Sheet.

S. SILTED AREAS Not applicable,

T. BY-PRODUCT INFORMATION Not applicable.

H-Y MISGELIANEOUS Difficulties Encountered with 808 Type Fathemeter.

On the 806 type fathemeters much trouble was experienced with the loose phasing head. There was a certain anount of play in the gear tooth on the initial adjustment server that could be eliminated. This looseness along with eval slots that engage the phasing head at various range settings, causes the initial trace to jump considerably when returned to the A-range from the B,C, or D ranges. It appears that this error is more or less constant; however not entirely so. The total error indicated from the time of leaving to returning to the & A-range was pro-rated during the time when the fathemeter was on the other scales, reducer a Sariance

DEPARTMENT OF COMMERCE U. S. COAST AND GEODETIC SURVEY NORPOLK DISTRICT OFFICE 102 West Olney Road Morfolk, Virginia

OFFICE ADDRESS

EXPRESS ADDRESS:

7 March 1958

To:

The Director Coast and Geodetic Survey Department of Commerce Bldg. Washington 25, D. C.

Subject: Scale Change on Survey H-8315

It is requested that consideration be given to the feasibility of smooth plotting survey H-8315 (ECFP-1756) Appr. to Narragansett Bay, on a scale of 1:12,500. The use of the smaller scale will permit the use of 36" instead of 42" paper, and will be large enough to show all development clearly.

_OK'ed by Capt. Richells & Rey Constant

Walter J. Chovan Captain, CAGS Morfolk District Officer

HLP:fe

Washington, D. C. 1st Indorsement

10 March 1958

Approved.

Chief, Hydrography Branch, Coastal Surveys Division.

> x-tra time for verification In changing scales for all 1 Junctions , T- Sheets , Bost Steel Company

check tabulation will be transmitted as a separate reper

हर्ति के स्वति । विकास के प्रति के प्रति के प्रति । विकास के प्रति के प्रति । विकास के प्रति के प्रति । विकास

्रात्ताचा । स्थाप के संगतिक दुवाकि स्थापिक प्राप्तक प्राप्ति है जिल्हा स

o Transa si kamba mga likekima makan liuting liuting lang lang lang

E. GOAST PILOT REPORT

Des special report 56/137 for discussion of straip and development unestray terms

NORFOLK PROCESSING OFFICE LIST OF SIGNALS To Accompany H-8315 ECFP-1756

TRIANGULATION STATIONS

BEA	BEAVERTAIL LIGHTHOUSE, 1869-1940
HAL	WHALE ROCK BEACON, 1940
HAZ	HAZARD TOWER, 1940
IVE	NARROW RIVER E (U.S.E.), 1909-40
JUD	POINT JUDITH LIGHTHOUSE, 1839-1940
*LITE	MAIN BREAKWATER, CENTER LIGHT 2, 1948
NEW	NEWPORT, DAVIS HOUSE CUPOLA, 1912-35
OUT	SOUTH, 1943
TANK	POINT JUDITH, TANK, 1940

*Falls off limits of sheet - used on insert only.

TOPOGE	RAPHIC	STATIONS		SOURCE	T-11432	
Aim	Big	Jim	Joe			
				SOURCE	T-11438	
Cop	Dix	Eva	Fix	Gig	Нор	Ion
PLANIA	METRIC	FEATURES		SOUR	CE T-114	<u>33</u>

End

APPENDIX B ABSTRACT OF VELOCITY CORRECTIONS PROJECT 13870 PROJECT 13870

SHEETS H-6316; H-6315; H-6314; H-6313; (ECFP -1656)

GROUP 1

LAUNCH CS-168

FATHCMETER No. 808 #77

SHEETS: #H+6314 -8316

*8/13 to 8/14; 8/20 to 9/5
**9/6 to 9/11; 9/12 to 9/26; 10/1 to 10/3

TABULATIONS OF RESULTS (SEE NOTE BELOW)

DEPTHS (ft.)	CORRECTIONS	(n.)	ud 5
0 to 33.0 33.1 to 36.5 36.6 to 39.0 39.1 to 45.0 45.1 to 70.0	0.0 + 0.2 + 0.4 + 0.6 + 0.8	Not	H 8313

NOTE: Various Initial settings were used throughout the season. It is to be noted that whenever the initial was changed, the fish unit was raised or lowered ascordingly to keep the velocity correction at zero.

GROUP II

LAUNCH CS-168

FATHOMETER NO. EDO # 201

SHERTS: *H-8314; **H-8316; #H-8313; ##EGFF-1856

Not used 8315

*6/12 to 8/9; 8/15 to 8/16; 10/16 only **9/27 only; 10/4 to 10/15; 11/9 only #6/15 to 11/1
##11/6 to 11/7

TABULATIONS OF RESULTS (SEE NOTE BELOW)

DEPTHS (ft.) CORRECTIONS (ft.)

0.0 to 38.0 0.0 38.1 to 70.0 + 0.2

NOTE: Initial setting is 1.0 except on sheet H-8316 when it is 0.0. It is to be noted however that on sheet H-8316 the fish was raised 1.0 ft. thus making the velocity corrections remain consistent with those for the other sheets.

APPENDIX B (GCMT'D) ABSTRACT OF VELOCITY CORRECTIONS PROJECT 13870 SHEETS H-8316; H-8315; H-8313; (ECFF-1856)

GROUP III

LAUNCH CS-82 FATHOMETER NO. 608 #77 SHEETS: H-8316; H-8314
11/7/56 only

0.0 to 15.0 0.0 15.1 to 48.0 - 0.2	i do
0.0 to 15.0 0.0	V38313
44.1 to 70.0 - 0.0	1

GROUP IV

NOTE: Initial setting is 0.0

IAUNCH CS-82 FATH. NO. EDO-202 SHEETS: #E-6314; ##E-8313 #E-8315; ##ECFP-1856

*5/2\$ to 6/\$
**6/11 to 9/26
#7/2\$ to 10/17
##9/4 to 10/25

TABULATIONS OF RESULTS (SEE NOTE BELOW)

DEPTES	(st.)	CORRECYIONS	(st.)
0.0 to		0.0	
14.1 to	21.0	+ 0.2	
21.1 to	27.5	+ 0.4	
27.6 to	36.0	+ 0.6	
36.1 to	46.0	+ 0.8	
46/1 to	54.0	+ 1.0	
54.1 to		+ 1.2	
59:1 to		+ 1.4	4
dial to		+ 1.5	e ^c
69.1 to		+ 2.0	
76		1	, r. i

MOTE: Initial setting is 1.0 feet

APPENDIX B (CON'T) ABSTRACT OF VELOCITY CORRECTIONS PROJECT 13870

GROUP Y

H-8367

LAURCH CS-82

PATHOGETER NO. EDO #202

SHEETS: H-8315 & EUFR-1856

For all dates in which depths ever 70 feet were measured.

TABULATION OF RESULTS (SEE NOTE BELOW)

DEPTHS (14.)	CORRECTIONS (ft.) (B - Range)
70 0 A - 70 0	+ 2,2
70.0 to 72.0	
72.0 to 81.0	+ 2.4
81.0 to 86.0	+ 2.6
86.0 to \$5.0	+ 2.8
88.0 to 93.0	+ 3.0
93.0 to max. depths	+ 3,2

NOTE: (a) See bar check 10/2/56, w day, launch CS-82.

(b) Phase correction between A- and B-range is 0.0 (c) Initial setting is 1.0 feet

GROUP YI

H-8367

LAUNCH CS_82

TATHOUTER 808/77

SHEETS: H_8315 & ECFF_1856

Phase corrections the same for all dates.

PHASE CORRECTIONS

(ft.)

		•	
B_	range	all depths	0.0
	Lendo		-0.4
-	Levice		

APPENDIX C STATISTICS

and the all the later of the la

DATE	NO.	DAY LTR.	NO. D.P.	POSITIONS PATH.	STA. MI. SDG.
Launch QS-	8 2				
7/26/56	1		2 -	99 _	16.3
7/30/56	142	ъ		146	23.4
7/30/56 7/31/56	2	G		143	22.7
8/3/56	2 2 3 4	đ		59	9.9
8/8/56	3	•		121 -	16.8
8/9/56 8/13/56	4	•		149 -	24.2
8/13/56	485	g		150	22.9
9/4/56	5	h		· 44 /	6.3
9/5/56	586	j	10	119	18.2
9/1/56 9/5/56 9/6/56		k	1	104	10.1
9/7/56	6 6 7	1		32 4)	3.5
9/10/56	6	m	1	· W	5.0
9/11/56	7	n	1	93 · 61 ·	12.4
9/11/56 9/12/56	7	p		61	4.4
0 M 9 /KE	7	ğ	2	-58°	3.5
9/18/56	Š	ř		32	4.8
9/19/56	8	8		120	16.7
9/21/56	8&9	ŧ		81/	9.4
9/25/56	9	u.		147/ = 1535	19.9
9/18/56 9/18/56 9/19/56 9/21/56 9/25/56 10/1/56 10/2/56	10	Y	1 ,	44	6,5
10/2/56	10	¥	1	113	15.3
10/3/56	10611	×	22	92	11.4
10/3/56 10/4/56	11	y		90-	11,9
10/5/56	11412	8		84	11.9
10/8/56	12	88		74/	9.6
10/9/56	12	ba	23	67	9.0
10/10/56	ij	Ca.		57	7.1
10/16/56	13	đa	6	88	8.2
10/17/56	13414	68	•	82	10.3
10/17/56 10/29/56	ŭ	fa	8	186	24.4
10/30/56	14815	ga	19	96	11.5
10/31/56	15	ha	16	35	3.9
-01 7-4 7-4	~~	TOTALS	114	2914	391.4

TOTAL Positions 3028
Square miles of sounding - 23.9

su progress chetch.

APPENDIX B

TIDAL NOTE FOR HYDROGRAPHIO SURVEY H-4315 (ROFF-1756)

All tidel data for reduction of soundings was obtained from portable tide gages at Monahan's Gove, Marragament, R.I. and Providence State Pier No. 2, Providence, R.I..

Nonahan's Gove

Gage: lat. 41° 25.35N

long. The 27.35N

Staff: Nean low water corresponds to 0.5 feet
on staff.

Gerrection: No time or height corrections were
applied to the results obtained from the
gage in reducing soundings.

Providence State Pier Me.1

Gages lat. 41 48:438 Not to be used no leng. 71° 24.088 This Survey

Staffs Mean les water corresponds to 0.0 feet en staff.

Gerrections Height retio 1.4 Time corr. - 10 min.

See Correction no form 7/2

The method of determining tide reducers is in accordance with the following letters;

36-292-15b dated 2 July 1956 36-380-15b dated 16 August 1956 36911-15b.2 dated 29 January 1957

APPENDIX E

COAST PILOT REPORT

ATLANTIC COAST

Section B - Cape Ged to Sandy Hook

Fifth (1950) Edition

Page 216 line 30 read;

"Entrance, has a depth of 14 feet and is marked by a bouy. (8 Another sheal about 0.3 mile EME of River Ledge has a depth of 19 feet.-"

APPROVAL SHEET

BOAT SHEET ECFP 1756 (H 8315)

The hydrographic survey of sheet H 8315 is approved and forwarded as complete and adequate, except as noted in item "J" of the descriptive report. The area north and west from latitude 41 - 24.5 and longitude 71 - 20.5 to latitude 41 - 26.00 and longitude 71 - 22.00 is very jagged on the fathogram, indicating a rocky bottom with peaks that can be missed with the fathometers. Additional development will be made on adjoining sheets for overlap in this area.

The soundings on the boat sheet were reduced for predicted tides, and no velocity or bar check corrections were applied. Doubtful sounding crossings have been reviewed by applying the corrections to ascertain any descrepancy, and good crossings and junctions were noted.

Marvin T. Paulson, LCdr.

Officer in Charge

East Coast Field Party

NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8315 (Field No. ECFP-1756)

GENERAL

This survey was smooth pletted, with the Director's permission, on a scale of 1:12,500. (See attached letter).

Soundings at crossings agree very well considering the fathometer trouble experienced, and the fact that a large part of the work was done during choppy sea conditions.

SOUNDINGS

All fathograms were check scanned and the soundings reduced with templates by personnel of the processing office.

Because of the reduced scale of the smooth sheet, and in order to avoid un-even sounding intervals, all soundings on "A" scale were scanned at 22½ second intervals. Those on "B" and "C" scales were scanned at 30 second intervals.

OVERLAYS

The following positions were plotted on an overlay to avoid un-due congestion on the smooth sheet:

93 to 102j; 13 to 60q; 12 to 56da; 72to 94da

INSERTS

The hydrography plotted as an insert falls off the limits of the sheet. The positions of the control stations were transposed to a suitable location on the sheet, and after the hydrographic positions had been plotted, they were removed to avoid interference with the regular hydrographic lines.

DISCREPANCIES

Soundings on positions 190 to 194fa were not penciled as they averaged 3 feet deeper than surrounding hydrography. NP

Positions 8,9 and 10ba were not smooth plotted because of weak fixes. These are detached positions on rocks which may be visible on air-photos. platted by area and land of

Norfolk, Va. 11 Sept. 1958

Respectfully submitted.

Hugh L. Proffitt Cartographer.

₩	GEOGRAPHIC NAMES Survey No. H-8315	J. T.	or or or	S. Mags	St. och stor	Dr. local Maria	O. Guide of	Mood McHally	S. Jegin	,/
# * <u>*</u>	Name on Survey A	Chor.	Se C	D AL	E E	or Nou }	G. G	_k ond .	s. K	
	Rhode Island			title					BGN	1
	Marragansett Bay		11	11					11	2
	Rhode Island Sound								11	3
	Point Judith .									4
	Marragansett Pier		uld se						BGN	5
		than	Monaha probab	n Cove	a ve	ry sma	ll feε	ture		6
		any c	hart c name i	ther t s appa	han por rently	ssibly in lo	c_{a} l us	68. e, but		7
	The Narrows	seem	s neve	r to h	ave be	an mar	ped.			8 9 3
• 1	West Passage Beavertail P int						<u> </u>			10
· .	East Passage .									11
-	Brenton Point			Names	appro	wed 10	-16-58	٠.		.12
						L He	-16-58 ck L.H.			13
	Tide Station off sheet:									14
•	Providence State Pier No. 1								***	15
· Ju								12.7	s as western	16
•	Point Vodith Neck								·	17
	Narragansett Pier									18
	River Ledge		1.5				·		-	19 ~
	Old Antonio									20
	Cormorant Rk	<u> </u>	•							21
	River RK									22
	Bass RK									
•	Clump Rks					7				24
					·				4.	25 26
						. ; ;			•	27
						V				M 234

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8315...

Records accompanying survey:	Smooth shee	ets;
boat sheets; sounding vols;		
Descriptive Reports; graphic re	corder enve	lopes 14-Envelope
special reports, etc1-Qverlevsmooth	.şbeet	• • • • • • • • •
	• • • • • • • • • •	• • • • • • • • • •
The following statistics will be submitted rapher's report on the sheet:		_
Number of positions on sheet	•	3028
Number of positions checked	•	114
Number of positions revised	. •	••••
Number of soundings revised and added (refers to depth only)	• • • • • • • • • • • • • • • • • • •	35
Number of soundings erroneously spaced (3 placed digits center on center numeral adj	sisted in mkin	7
Number of signals erroneously plotted or transferred	•	••••
Topographic details V		6 hrs
Junctions	Time .	12hrs
Verification of soundings from / graphic record	Time .	••••
Special adjustments Corr from Tides	Time 🦃	8 hrs. 1053 Sdg rev.
Verification by See Total ti	me .23/. D	ate \$/17/59.
Reviewed by Sureshund Ti	me	ate 7-27-60

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstans

12 November 1958

Plane of reference approved in 15 volumes of sounding records for

HYDROGRAPHIC SHEET 8315

Locality Point Judith, Rhode Island

Chief of Party: M. T. Paulson in 1956

Plane of reference is mean low water, reading

0.5 ft. on tide staff at Monahans Cove

19.9 ft. below B.M. 1 (1956)

1.4 ft. on tide staff at Newport (Staff of 1930) 36.0 ft. below B.M. 1 (1930)

Height of mean high water above plane of reference is:

Monahans Cove . . . 3.2 feet Newport 3.5 feet

Condition of records satisfactory except as noted below:

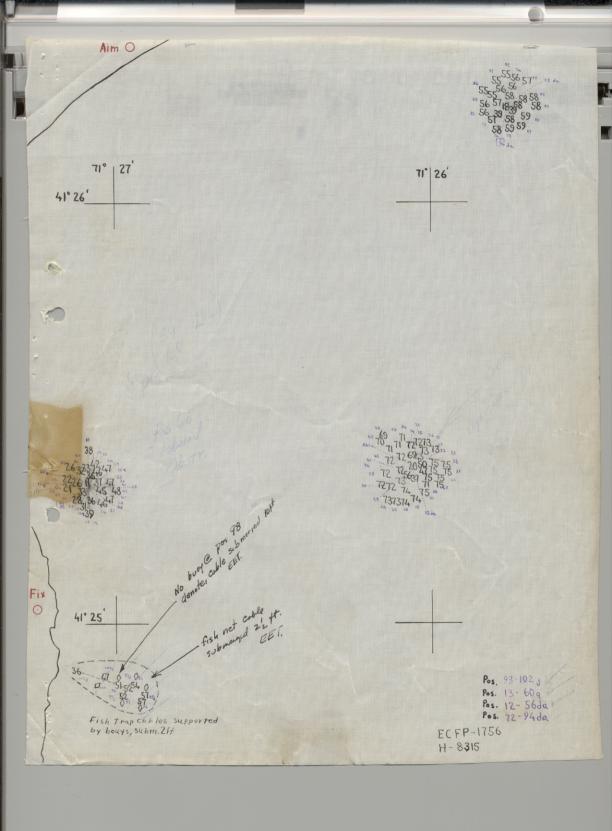
NOTE: Tide reducers for the positions listed below have been revised in red and verified:

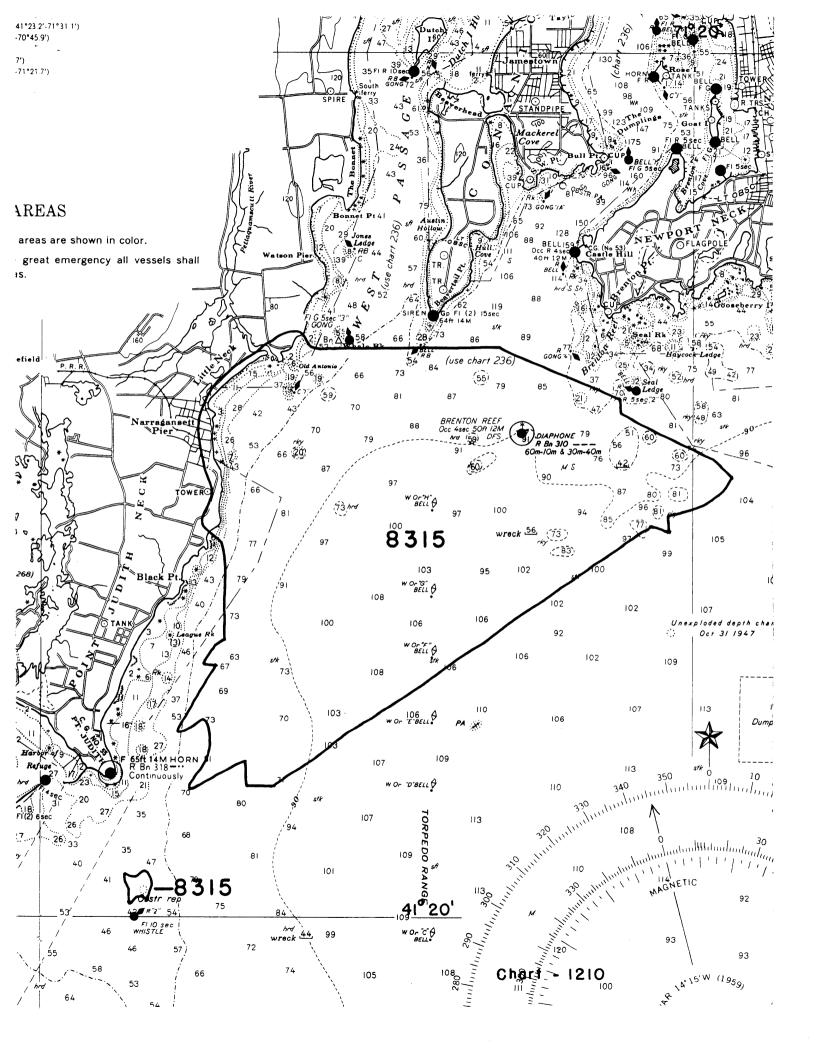
Vol.	Pos	itions	
AOTE			/
3	le	- 86e 8	5
4	lf	- 66f	1
9	53t	- 81t ·	/
10	lv	- 15v	
	lw		
		-114w	
		- 36x	
11	104x	-114x	
	ly	- 78y	
	77	- 677	

Vol.	Positi	lons
12	62z -	81z V
	38aa-	74aa*
	76ba-	90ba
13	69da-	94da
14	108fa-	194fa
15	32ga-	115ga
	lha-	38ha
M	illian	ulho

Chief, Tides Branch

Signature





OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8315

FIELD NO. ECFP-1756

Rhode Island, Approaches to Narragansett Bay, East of Pt. Judith Neck

SURVEYED: July - October 1956

SCALE: 1:12,500

PROJECT NO. 13870

SOUNDINGS: EDO Depth Recorder 808 Depth Recorder

Leadline

CONTROL: Sextant fixes on shore signals

Chief of Party ----- M. T. Paulson Surveyed by ----- D. L. Campbell; R. A. Lewis Protracted by ----- w. L. Jonns Soundings plotted by ----- W. L. Jonns Verified and inked by ----- E. E. Thomas Reviewed by ----- I. M. Zeskind DATE 7-27-60 Inspected by ----- R. H. Carstens

* shoreline revised from reviewed survey T-11438 (1984-56) Shoreline and Control 1.

The shoreline originates with unreviewed air-photographic surveys of T-11432, T-11433, T-11434 and T-11438 of 1954.

The source of the control is given in the Descriptive Report.

2. Sounding Line Crossings

Depths at crossings are in good agreement.

3. Depth Curves and Bottom Configuration

> The usual depth curves were adequately delineated, except close inshore where the foul character of the bottom prevented development to the low-water line. The 90-it. curve was drawn to better delineate bottom configuration.

The bottom is very irregular close inshore on the west and fairly irregular in depths less than 90 ft. Elsewhere the bottom is smooth. Submarine features such as ledges, shoals and pinnacles contribute to the bottom irregularity.

4. Junctions with Contemporary Surveys

> Adequate junctions were effected with H-7640 (1948) on the west, H-6443 (1939) on the southwest, and H-6444 (1939) on

the southeast. The junction with H-8367 (1956-7) on the north will be considered in the review of that survey.

5. Comparison with Prior Surveys

A. H-153 (1844), 1:20,000 H-1787 (1887), 1:40,000 H-1789 (1887), 1:10,000

These early reconnaissance surveys cover the area of the present survey. A comparison between the prior and present surveys reveals only minor differences of 2-3 ft. in depth. The bare rock charted in Lat. 41°26.27', Long. 71°26.52' originates with H-1789 (1887). The present survey shows this feature to be a rock awash at MLW. The charted bare rock should, therefore, be revised to a rock awash.

A number of bottom characteristics have been carried forward from the prior surveys to the present survey. With the addition of these bottom characteristics, the present survey is adequate to supersede the prior surveys within the common area.

B. Wire Drag Surveys

H-4006 WD (1917), 1:20,000 H-7029 WD (1949), 1:20,000

There are no conflicts between the effective wire drag depths and the soundings on the present survey. A number of soundings have been carried forward from the wire drag surveys to the present survey.

6. Comparison with Chart 236 (Latest print date 5-23-60)
268 (Latest print date 12-21-59)
1210 (Latest print date 2-29-60)

A. Hydrography

The charted hydrography originates principally with the prior surveys previously discussed which need no further consideration, with the boat sheet and the smooth sheet of the present survey prior to verification and review. A comparison between chart and present survey reveals only minor differences of 1-4 ft. in depths. Attention, however, is directed to the following:

1. The reported obstruction charted in Lat. 41°20.3', Long. 71°28.4' originates with HON to M 47 (1949). A search of one hour and 35 minutes by the field party failed to reveal the existence of the obstruction. However because of the limited area

covered, it is recommended that the symbolization be retained on the chart until the area can be wire dragged to either confirm or disprove the existence of the obstruction. (See page 4, No. 17 of the Descriptive Report.)

- 2. The wreck cleared by a wire drag set to an cleared effective depth of 56 ft. which is charted in by 68 on Lat. 41°24.5', Long. 71°22.5' falls in present ff (1964) depths of 97-99 ft. The wreck originates with the U. S. Navy Wreck List of 1957, and the cleared depth originates with H-7029 WD (1948). The wreck was not found on the present survey and it is, therefore, recommended that the cleared depth be retained on the chart. (See page 4, No. 16 of the Descriptive Report.)
- 3. The barge wreck located on the present survey in Lat. 41°26.50', Long. 71°26.25' has not been charted.

109909

- 4. The 21-ft sounding charted in Lat. 41°26.00', Long. 71°21.78' from the unverified survey H-8367 (1956) falls on the present survey on a 28-ft. sounding which was brought forward from H-4006 WD (1917). The charted 21-ft. sounding will be considered in the review of H-8367.
- 5. The 3 bare rocks charted in Lat. 41°25.69', Long. 71°27.33' originates with air-photographic survey T-5095 (1948-49). These rocks are part of a ledge on the present survey and the present topographic survey T-11438.

The present survey is adequate to supersede the charted hydrography within the common area except as noted above.

B. Aids to Navigation

The present survey positions of aids to navigation are in substantial agreement with the charted positions and adequately mark the features intended.

7. Condition of Survey

- a. The sounding records and Descriptive Report are complete and comprehensive.
- b. The smooth plotting was accurately done.
- c. Tide reducers originally entered from Providence tide gage were revised to reducers from the Newport gage.

H-8315 - 4

8. Compliance with Project Instructions

The survey adequately complies with the Project Instructions.

9. Additional Field Work Recommended

This survey is considered basic. However, the obstruction and the wreck noted in paragraphs 6A-1 and 6A-2 above will presently remain on the charts as symbolized until further information is furnished by wire drag methods.

Examined and Approved:

Projects Officer, Operations Division

Ascistant Director, Office of Cartography

Assistant Director,

Office of dceanography

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8315

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
11/17/58	266	HCAndurson	Before After Verification and Review
1/15/59	353	HC Anderson	Before After Verification and Review
1/15/59	1210	H.C.Anderson	Before After Verification and Review Fartially
420-59	234	R.F.Elkins	Before After Verification and Review Partly officed
8:16.57	268 -	la fritagije	Se {ove Button After Verification and Review
12-28-60	236	R.E.Elkins	Before After Verification and Review Fully applied.
12-28-60	353	R.E. Elkins	Before After Verification and Review Fully applied. app in part them cut 236.
12-28-66	1210	R.E. Elkins	Before After Verification and Review Fully applied. app in part thru cht 353.
10/24/41	1210 Reconst	m. Pagers	D. A. A. W. W. W. J. D. J.
4/5/62	268	William H. Wall	July applied thru short 353 in common and and thru skinting short 1210 for successful. After Verification and Review
3/13/95	13021 Cextension	Ant Bate	Before After Verification and Review
		·	

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.