

8616

Diag. Cht. No. 1211-2.

Form 504 U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY DESCRIPTIVE REPORT	
<i>Type of Survey</i> Hydrographic	
<i>Field No.</i> WA-HI-10-2-63	<i>Office No.</i> H-8616
LOCALITY	
<i>State</i> Rhode Island	
<i>General locality</i> Block Island Sound	
<i>Locality</i> Watch Hill to Quonochontaug Beach	
<u>19.61.</u>	
CHIEF OF PARTY D. E. Rushford	
LIBRARY & ARCHIVES	
DATE March 15, 1963	

USCOMM-DC 5087

8616

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-6816

Field No. WAHI-10-2-61

State RHODE ISLAND

General locality BLOCK ISLAND SOUND

Locality WATCH HILL

Scale 1:10,000 Date of survey 20 June - 10 October 1961

Instructions dated 24 March 1960 - Suppl. 19 Dec. 1960

Vessel WAINWRIGHT & HILGARD

Chief of party LCDR D. G. RUSHFORD

Surveyed by LCDR D. G. RUSHFORD, LTJG C.W. RANDALL, ENS. E.D. SCHWANTES

Soundings taken by fathometer, ~~graphic recorder, double beam, etc.~~

Fathograms scaled by Personnel WAINWRIGHT & HILGARD

Fathograms checked by " " " "

Protracted by W.L. JONNS (Norfolk Processing Office)

Soundings penciled by W.L. JONNS " " "

Soundings in ~~fathoms~~ ^{feet} ~~feet~~ at MLW ~~MELOX~~ and are true depths

REMARKS:

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.....
.....
.....

R.W.W. 11/1/91

6.53

DESCRIPTIVE REPORT TO ACCOMPANY
HYDROGRAPHIC SURVEY H-8616 (FIELD WAHI-10-2-61)

PROJECT OPR-414
RHODE ISLAND COAST

DEWEY G. RUSHFORD - CHIEF OF PARTY

SCALE 1:10,000

A. PROJECT:

Instructions CS-414 dated 24 March 1960. Supplemental instructions OPR-414 dated 19 December 1960. ✓

B. SURVEY LIMITS & DATES:

This sheet covers an area from latitude $41^{\circ} 16'.0N$ to $41^{\circ} 20'.5N$; ✓
longitude $71^{\circ} 41.0'W$ to $71^{\circ} 50.0'W$. This sheet joins WAHI-10-1-61 H-8615 (1961-63)
along this sheet's Eastern edge and joins WAHI-10-3-61 H-8708 (1961-62) along this
sheet's Western Edge.

Field work began on 20 June 1961 and was completed on 10 October 1961. *Wiredrag of Old Reef on September 8, 1962*

Survey junctions with H-6443 (1939) along the Southern Boundary of the new sheet.

C. VESSELS & EQUIPMENT:

USC&GSS WAINWRIGHT's work is designated by capital letters in red ink. The HILGARD's with capital letters in blue ink. Launch CS-1201 used lower case letters with red ink. Work done by the aluminum skiff is in purple ink. Launch CS-181 used lower case blue letters. ✓

D. SOUNDING EQUIPMENT:

The following is a list of 808 fathometers and where they were utilized:

<u>Vessel</u>	<u>Fathometer No.</u>	<u>Days used</u>	<u>Depth Range (ft.)</u>
WAINWRIGHT	138 SPX	A - R	25 - 130
HILGARD	57-33	A - E	25 - 130
CS-1201	57-33	a, b, c, d, e	5 - 50
CS-1201	139-SP 58-5	"b"-day AM hours	5 - 50
CS-181	58S	a	5 - 50
Aluminum Skiff	139-SP	a	3 - 30

808 type # 57-33 used by CS-1201 all days except AM hours of "b" day

Fathometer corrections for the 1961 season were determined by daily bar checks, monthly temperature and salinity observations, and phase comparisons.

E. SMOOTH SHEET:

To be accomplished by Norfolk District Office.

F. CONTROL:

All control was located by conventional methods. The signals employed are tabulated on Attachment No. 2. All vessels were controlled by visual three-point fixes. The following photogrammetric manuscripts were used: T-11439, T-11447, and T-11452. Standard 60th Meridian time was used to control the survey.
 Also RS-715, 716 and 723, review date 1960.

G. SHORELINE:

Shoreline transfer and signal locations were applied by the Photogrammetric Support Party using manuscripts: T-11439, T-11447, and T-11452. Due to a small tidal range, steep drop-off at the shoreline, and breaking seas it was not possible to establish the low water line with the soundings. It was observed, that in most areas of this sheet, there is very little horizontal difference between the high and low water lines.

New construction at Quonochontaug Beach: Latitude 41° 19.8'N, longitude 71° 43.1'W. A new breakwater and channel dredging is under construction on the inlet to Quonochontaug Pond. Since construction is still in progress and a lack of time at the end of the field season, a complete investigation was not run.

H. CROSSLINES:

The percentage of crosslines run was approximately 10%. In addition, it is noted, that in most cases the small discrepancies in depth were caused by using different sounding equipment or vessels for running the crosslines, than that used to run the regular system of lines. *See Reviewer's Report.*

I. JUNCTIONS:

There was good agreement at the survey junctions. What differences, that do exist, will probably be reduced when phase corrections are applied to the soundings, which were obtained using different fathometers and vessels. *See Reviewer's Report.*

J. COMPARISON WITH PRIOR SURVEYS:

The pre-survey review items were checked. The three "B" items (shoal isolated soundings) were proven to exist as charted or very close to where they were charted. The one "A" item, a 70 foot wire drag grounding, could not be located. However a 7-foot sounding was found at latitude $41^{\circ} 18.6'N$, longitude $71^{\circ} 42.6'W$. *See Reviewer's Report and Vol. 1, p.53 of this survey: (pos. 93 "B", Wainwright).*

The new soundings checked closely with H-6443.

K. COMPARISON WITH C&GS CHART 1211:

C&GS Chart 1211, August 23, 1960, was used. The chart compared closely with the boat sheet, except in one location. There is a four foot (4') sounding charted on Old Reef (latitude $41^{\circ} 19.2'N$, longitude $71^{\circ} 47.1'W$), which was not located. A crossing system of lines spaced at twenty meters revealed a least depth of only twelve feet at the shoalest spot. *Hang at 7fb, tender-sounding 5fb, wiredrag up Old Reef, a part of this survey.*

L. ADEQUACY OF SURVEY:

This survey is complete and adequate to supercede all prior surveys with the following exceptions. (1) See notes concerning Old Reef in sections K&P of this report. (2) See note in sounding record book for HILGARD, D day, where the fathometer may not have been seated on D scale properly. The soundings effected are off-shore (latitude $41^{\circ} 17'N$, $71^{\circ} 49'W$). *See Reviewer's Report.*

M. AIDS TO NAVIGATION:

The Old Reef "N2" buoy is the only aid on the sheet and is ✓
located as charted.

N. STATISTICS:

	<u>Positions Flotted</u>	<u>Naut. Miles Soundings</u>	<u>Number of Days Worked</u>
USC&GS WAINWRIGHT	1521	276.9	15
USC&GS HILGARD	455	95.1	5
Launch CS-1201	816	112.2	10
Launch CS-181	132	19.1	1
Aluminum Skiff	17	1.3	1
TOTALS	2941	504.6	32

13.75 square nautical miles were completed on this sheet. One ✓
tide gage was used. Location: Watch Hill Point Coast Guard Boat
House. 63 bottom samples were taken by lead line, with soap in
bottom of the lead.

P. RECOMMENDATIONS:

It may be advisable to wire drag Old Reef (latitude $41^{\circ} 19' N$,
longitude $71^{\circ} 47' W$) to prove or disprove the four-foot sounding ✓
charted on C&GS 1211. See paragraph K of this report for details.

*Wire Drag in
1962*

Also, after construction at Quonochontaug Beach (see item G ✓
of this report) has been completed, soundings and shoreline should
be checked.

Q. REFERENCE TO REPORTS:

No separate reports have been sent in to the Washington Office. ✓

R. LIST OF ATTACHMENTS:

1. Tide Stations.
2. Fathometer Corrections.
3. List of Signals.

T I D E S T A T I O N S

A portable tide gage was installed on a lone pile located fifty-feet off-shore from the Watch Hill Point, Rhode Island Coast Guard Station boat-house: Latitude $41^{\circ} 18.3'N$, longitude $71^{\circ} 51.6'W$.

$60^{\circ}W$ meridean time was used throughout the survey.

The gage was not located within the limits of this ~~sheet~~ survey (WAHI-10-2-61), but is within ~~two miles~~ of the ~~western~~ limit, of this sheet. Predicted tides were used in correcting soundings placed on the boat sheet. Mean low water was determined by spirit levels for the tide staff as 2.1 feet before Sept. 27, 1961 and 2.2 feet after this date. The original staff was lost during hurricane "Ester".

FATHOMETER CORRECTIONS

Bar checks were taken daily to a depth of fifty feet. Temperature and salinity observations were taken to a depth of 137 feet. Results of these checks were plotted on a smooth curve and the following corrections were scaled off:

WAINWRIGHT - Fathometer 138-SPX

<u>Depth (feet)</u>	<u>Correction (ft.)</u>	<u>Phase Comp. (feet)</u>
0 TO 22	+0.4	A - B = -2.6
22 TO 38	+0.6	B - C = -1.3
38 TO 48	+0.4	C - D = +0.5

HILGARD - Fathometer 57-33

0 TO 15	0.0	A - B = +0.6
15 TO 24	+0.2	B - C = -2.0
24 to 30	0.0	C - D = -1.3
30 TO 55	-0.2	

Launch CS-181 - Fathometer 58-S

0 TO 35	+0.2	A scale only
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Aluminum Skiff - Fathometer 139-SP

0 TO 28	-0.4	A scale only
28 TO 32	-0.6	
32 TO 35	- 0.8	

Launch CS-1201 - Fathometer 57-33 (C thru k days)
(Initial set at 1.0' with transducers inside hull)

0 TO 50	0.0	A - B = +1.2
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Launch CS-1201 - Fathometers 57-33 & 139-SP (a & b days)
(Initial set 2.0' with transducers outside hull)

0 TO 25	-0.2	A - B = *+1.3
25 TO 32	-0.4	
32 TO 40	-0.6	
40 TO 45	-0.8	

TEMPERATURE AND SALINITY

<u>Date</u>	<u>-0.6</u>	<u>-0.5</u>	<u>-0.4</u>	<u>-0.3</u>	<u>-0.2</u>	<u>-0.1</u>	<u>0.0</u>	<u>-0.2</u>	<u>-0.4</u>	<u>-0.6</u>
1961	81-90	69-81	55-69	42-55	28-42	13-28	0-13			
6/14			93-100	75-93	55-75	30-55	0-30			
6/27						70-75	0-70			
7/13							0-20	20-60	60-100	100-137
10/4										

Depths in Feet

ATTACHMENT NO. 3

LIST OF SIGNALS

T-11439 - RS 716
 T-11447 - RS 715
 T-11452 - RS 723

<u>Name</u>	<u>Origin</u>	<u>Name</u>	<u>Origin</u>
ABE	T-11447	NEO	T-11447
ANN	T-11447	NUT	T-11447
ANT	T-11439	OCEAN	Ocean House flagstaff, 1934
ART	T-11447	OFF	T-11447
AZO	T-11439	OHM	T-11439
BAG	T-11447	OIL	T-11439
BAT	T-11439	PAD	T-11439
BOT	T-11439	PAW	T-11447
CAB	T-11447	PIE	T-11447
COW ^{CAR}	T-11439 ^{T-11439}	PIL	T-11439
DAY ^{COD}	T-11447 ^{T-11452}	PIT	T-11439
DCG	T-11439	POL	T-11439
DUN	T-11447	QUO	Misquamicut Clubhouse, 1934
EBB	T-11447	RAG	T-11447
EGG	T-11447	RAT	T-11447
EVA	T-11439	RED	T-11447
FIN	T-11447	RIP	T-11439
FLY	T-11447	SAM	T-11439
FOP	T-11439	SET	T-11447
GAL	T-11447	SHE	T-11447
GUM	T-11439	SUE	T-11439
GUY	T-11439	TOW	T-11452
HEX	T-11439	TANK	(Fort Hill New Tank, 1932)
IDA	T-11447	WATCH	Watch Hill Lighthouse, 1873
JIB	T-11447	WEE	T-11447
JIM	T-11439	WOC	T-11439 (Sextant cuts)
KIM	T-11447	YET	T-11447
LAD	T-11439	ZAG	T-11447
LOW	T-11447		
MAR	T-11439		
MOP	T-11447		

NORFOLK PROCESSING OFFICE
LIST OF
FLOATING AIDS TO NAVIGATION

<u>BUOY</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>DEPTH</u>	<u>POS. NO.</u>	<u>DATE</u>
BLOCK ISLAND SOUND Old Reef Buoy 2 ✓	41-19.00	71-47.08'	30'	77c	8/31/61 ✓

NORFOLK PROCESSING OFFICE
ADDENDUM
To Accompany

HYDROGRAPHIC SURVEY H-8616 (Wa-Hi-10-2-61)

GENERAL

A considerable amount of difficulty was experienced during the smooth plot of this survey. Much of the trouble was caused by erratic phasing when changing to the deeper scales. The phase corrections, as derived from tests on the bar by the field party, were not applicable in some instances, so phase corrections were applied by the smooth plotter as indicated at each scale change. Most of these changes were made on the work of Ship Wainwright.

Some of the bar check returns are erratic, even on the same check. However, some of the differences may have been caused by choppy seas. New corrections were compiled for H day, Ship Wainwright, as the returns from this check were completely at variance with the average. Also, much rescanning was done to mean out wave action and to bring soundings at crossings into better agreement.

In spite of these efforts on the part of the smooth plotter, crossings, particularly in deeper water, are only fair as numerous one to two foot discrepancies exist. Lines with greater discrepancies are listed in the paragraph below. Furthermore, it will be noted that all launches were fairly consistent about marking the positions on the time lines on the fathograms, and it is suspected that some of the depth discrepancies are caused by incorrect fathometer speed as a result of using the fathometers for clocks. *See Reviewer's Report.*

DISCREPANCIES

Soundings on positions 1 thru 7E and 38 thru 75E, Hilgard, are being submitted on an overlay as governor trouble is indicated. Soundings on this overlay were recorded in the "office column" after applicable time corrections had been applied. Some of these soundings are in fair agreement, while other differ considerably from surrounding depths. *Some soundings inked on S.S. - See volumes and Reviewer's Report.*

Soundings on crosslines 1 thru 13C and 53 thru 69C, Hilgard, are unaccountably in general disagreement with surrounding hydrography. These soundings are penciled on the smooth sheet. *Reviewer inked soundings between pos. 1-31 "C" Hilgard.*

Soundings on line 74 to 78D, Hilgard, were not plotted as they do not agree with surrounding depths. *Obvious error of the fathometer. - See graph.*

Con't.

Continuation

WIRE DRAG

Wire drag lines run on Old Reef are being submitted on an overlay to accompany the smooth sheet. The 5 foot sounding, which was obtained by the tender in the vicinity of the charted 4 foot spot, was transferred to the smooth sheet. ✓

Respectfully submitted,



Hugh L. Proffitt
Cartographer

Norfolk, Va.
6 March 1963

UNITED STATES GOVERNMENT

Memorandum

210
835 RHC
834
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY
3030
(1962)

TO : Director
Coast & Geodetic Survey

DATE: Sept. 13, 1962

Form

FROM : Commanding Officer
USC&GS Ships WAINWRIGHT & HILGARD

SUBJECT: SPECIAL REPORT - WIRE DRAG INVESTIGATION

An area of approximately 0.4 nautical square miles was wire dragged to an effective depth of 7'-8', in search for a charted four (4) foot sounding in latitude 41° 19'12", longitude 71° 47'03".

Three rocks were subsequently found by wire drag and SCUBA diver investigation. In all cases the rocks were located by three-point sextant fixes with check angles; and lead line soundings obtained by the following method. One SCUBA diver held the lead line on the rock, and the other diver ascended to the surface, held the line vertically true and read the line for depth. All soundings were taken twice as a check.

The rocks area as follows:

1. A rock covered by 8.5' in lat 41° 19.19' long 71° 47.05'
2. " " " " 8.5' " " 41° 19.18' long 71° 47'.07
3. " " " " 5.5' " " 41° 19.15' long 71° 47.06'

It is recommended that the charted four (4) foot sounding be expunged.

No further dragging is recommended in the area.

Kenneth A. MacDonald
Kenneth A. MacDonald

LEG/jrb

Chart 1211 - Exam, No Corr 9-24-63
1108 - off GRJ/REE 9-29-62
70 - 10-18-62 GRT
271 - Exam - No corr 4-11-66

1050
SEP 28 1962

Acknowledged by form letter dtd. SEP 25 1962: by

OFFICE OF HYDROGRAPHY AND OCEANOGRAPHY
REVIEW SECTION -- MARINE CHART DIVISION
REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. 8616

FIELD NO. WA-HI-10-2-61

Rhode Island - Block Island Sound, Watch Hill to
Quonochontaug Beach

SURVEYED: June 20-October 10, 1961, and Sept. 8, 1962

SCALE: 1:10,000

PROJECT NO. H-8616

SOUNDINGS: 808 Depth
Recorder

CONTROL: Sextant fixes on
shore signals.

Chief of Party-----D. G. Rushford
Surveyed by-----D. G. Rushford
 C. W. Randall
 E. D. Schwantes
Protracted by-----W. L. Jonns (Norfolk)
Soundings Plotted by-----W. L. Jonns
Verified and Inked by-----James C. Chambers
Reviewed by-----S. Rose
Inspected by-----R. H. Carstens

May 17, 1966

1. Description of the Area

This survey covers an area of Block Island Sound extending from Quonochontaug Beach to 2 1/4 nautical miles East of Watch Hill Point, Rhode Island. The shoreline is steep, and shows surprising similarity to that on the 1839 and 1882 surveys. The bottom, shoreward of 36-ft. depths is dotted with small, isolated shoals; seaward it slopes gently offshore. Numerous pinnacle-rocks occur in depths less than 50-ft. The bottom is hard, sandy, and stable, although some shoaling is indicated in a few spots.

A new breakwater was being constructed, at the time of the survey, at the inlet to Quonochontaug Pond, and the inlet was being dredged.

2. Control and Shoreline

The control is adequately described in the Descriptive Report.

The shoreline originates with revised photogrammetric manuscripts RS-715, RS-716 and RS-723 all of which carry the final review date of 1960.

3. Hydrography

A. Some soundings of the HILGARD's work on C, D and E days were rejected because of disagreement with surrounding hydrography; some were changed by no more than one foot as a result of rescanning the fathograms. Erratic phase-corrections and other malfunctioning of the fathometers probably caused some discrepancies which could not be resolved.

B. The usual depth-curves were adequately delineated.

C. The development of the bottom configuration is considered adequate. Several pinnacles were not specifically investigated for least depth, as, for example, the 24-ft. depth at Lat. $41^{\circ}19.06'$, Long. $71^{\circ}48.22'$, and the 17-ft. depth at Lat. $41^{\circ}18.97'$, Long. $71^{\circ}47.52'$.

Old Reef was wire-dragged and the least depth determined.

4. Condition of the Survey

The field-plotting, sounding records and the Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual, except that phase-corrections entered by the field party did not properly reflect the erratic operation of the phasing head. Revisions to corrections were applied by the smooth plotter and verifier. New fathometer corrections for H-day, Ship WAINWRIGHT, were determined by the smooth plotter to reflect a significant variation_x from the average originally used.
(S.R.)

5. Junctions

Adequate junctions were affected with H-8615 (1961-63) on the east; H-8708 (1961-62) on the west, and H-6443 (1939) on the south.

6. Comparison with Prior Surveys

- A. H-86 (1839) 1:20,000
- H-91 (1839) 1:20,000
- H-1529a (1882) 1:40,000
- H-4043a (1918) 1:20,000

Taken together, these surveys comprise the prior coverage of the area of the present survey. There are no significant changes in the bottom revealed between the above-listed surveys and the present survey. Some discrepancies of 1-6 ft. with prior depths in the deeper areas are considered to be caused by differences in earlier and modern methods of surveying and in less accurate control on the prior surveys.

The least depths of 5-ft. on Old Reef was obtained by wire-drag operations in 1962.

The present survey is adequate to supersede the prior surveys in the common area.

B. Comparison with Wire-drag Surveys.

- H-4042 (1918) WD 1:50,000
- H-4043 (1918-19) WD 1:20,000
- H-8616 (1961) WD 1:10,000

The effective depths of these wire-drag surveys within the area of the present hydrographic survey do not conflict with the depths of the present hydrographic survey. Several soundings from the wire-drag surveys were carried forward to supplement present depths.

7. Comparison with Chart 1211, Eleventh Ed., Jan. 24, 1966

A. Hydrography

The charted hydrography in the area of this survey is from the previously discussed prior surveys, the present survey before verification and from the boatsheet of the present survey.

Attention is directed to the following:

(1) The 8 charted in Lat. $41^{\circ}19.25'$, Long. $71^{\circ}47.10'$, is from the boatsheet of the present survey; it is an error, and is actually 18 on the boatsheet.

(2) The charted 4-ft. depth on Old Reef. Lat. $41^{\circ}19.19'$, Long. $71^{\circ}47.07'$, originates with additional work in 1896 on H-1529a (1882). It should be changed on the chart to a 5-ft. depth obtained by scuba-divers on the wire-drag work of 1962 of this survey.

(3) A 21-ft. sounding charted at Lat. $41^{\circ}19.05'$ -Long. $71^{\circ}49.00'$ originates with H-1529a (1882) where it actually falls 60 meters inshore in comparable depths on the present survey.

(4) Ledge symbols are shown on chart 1211 off Qu^yochontaug Beach in an area marked "foul" on the present survey. The hydrographer could not approach the highwater line in this area because of steep bluff and heavy surf. Recent color-photography does not show this ledge, and it was not charted on the new chart 271. Both T-91 (1839) and T-1312 (1873) show sand and stones or boulders in this area. The area is considered to be of foul character.

(5) The ~~70~~-ft. sounding charted at Lat. $41^{\circ}18.59'$, Long. $71^{\circ}42.71'$, is a grounding on H-4042 (1818) WD. It occurs on an inclined section of the drag, and should be disregarded. The present survey shows a 69-ft. depth at Lat. $41^{\circ}18.60'$, Long. $71^{\circ}42.62'$ which is adequate to supersede the 70.

(6) The 74 charted at Lat. $41^{\circ}16.20'$, Long. $71^{\circ}9.30'$ should have the description "wk" appended to it to conform with information contained in the Descriptive Report for H-4042 WD (1918). The wreck was cleared by 65 feet.

The present survey is adequate to supersede the charted hydrography within the common area.

B. Aids to Navigation

The only floating aids on this survey is the buoy marking Old Reef. It is in agreement with the charted position, and adequately marks the feature intended.

8. Compliance with Instructions

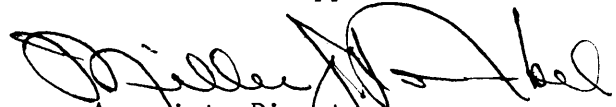
The survey adequately complies with project instructions.

9. Additional Field Work

This survey is a very good basic survey and requires no further field work; however, the new Quonochontaug breakwater should be surveyed at a future date, and the new controlling depth in the inlet to Quonochontaug Pond should be determined.

Wallace A. Bruder
Acting Chief,
Marine Chart Division

Examined and Approved:


Associate Director,
Hydrography and Oceanography

GEOGRAPHIC NAMES

Survey No. H-8616

Name on Survey											
	A	B	C	D	E	F	G	H	K		
	On Chart No.	1211 On previous survey No.	On U. S. Maps	U. S. quadrangle	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
<i>Block Island Sound</i>	✓										1
<i>Misquamieut</i>	✓										2
<i>Old Reef</i>	-										3
<i>Quanochoctaug Beach</i>	-										4
<i>Watch Hill Point</i>	-										5
<i>Weekapaug^w Point</i>	-										6
											7
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George M. Ball
Geographic Names
18 April 1963

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. .8616...

Records accompanying survey: Smooth sheets ...1.;
 boat sheets ...1.; sounding vols. ...18.; wire drag vols. ...2.;
 Descriptive Reports ...1.; graphic recorder envelopes ...12.;
 special reports, etc. 3-Wire Drag Overlays; 2-Hydrogrpahy
 .Overlays; 1-Boat sheet wire drag overlay; 1-Boat sheet A&D Sheet
 Overlay and 2-Boat sheet tracings.

The following statistics will be submitted with the cartog-
 rapher's report on the sheet:

	verifier	Review
		(hours) —
Number of positions on sheet	2941	
Number of positions checked	274	9
Number of positions revised	0	
Number of soundings revised (refers to depth only)	0	
Number of soundings erroneously spaced	0	
Number of signals erroneously plotted or transferred		1
Topographic details	Time 4	2
Junctions	Time 16	7
Verification of soundings from graphic record	Time 8	} 31
<i>studied fathograms trying to solve crossing-problems.</i> Special adjustments	Time 9	
<i>See volumes and Reviewer's Report.</i>		

Verification by *J. L. P. Chambers* Total time ²¹⁶~~208~~ Date 1-13-65

Reviewed by *A. Rose* Time 97 hrs. Date 5-18-66

RHC

TIDE NOTE FOR HYDROGRAPHIC SHEET

May 27, 1963

Nautical Chart Division: R. H. Carstens

Plane of reference approved in
20 volumes of sounding records for

HYDROGRAPHIC SHEET 8616

Locality Block Island Sound, Rhode Island

Chief of Party: D. G. Rushford 1961, 62

Plane of reference is mean low water, reading

2.1 ft. on tide staff at Watch Hill Point, Rhode Island (before Sept. 27, 1961)

~~XXXXXXXXXX~~

2.2 ft. on tide staff at Watch Hill Point, Rhode Island
(through Oct. 1961)

2.4 ft. on tide staff at Watch Hill Point, Rhode Island (1962)

11.2 ft. below B. M. NO 1 1939"

Height of mean high water above plane of reference is 2.5 ft.

Condition of records satisfactory except as noted below:

NOTE: Tide reducers for the following positions have been
changed in red and verified.

Vol.	Position
9 (WAS 200)	71R-86R ✓
10 (Hilgard)	1A-95A ✓

J. M. Symonds
Chief, Tides and Currents Branch

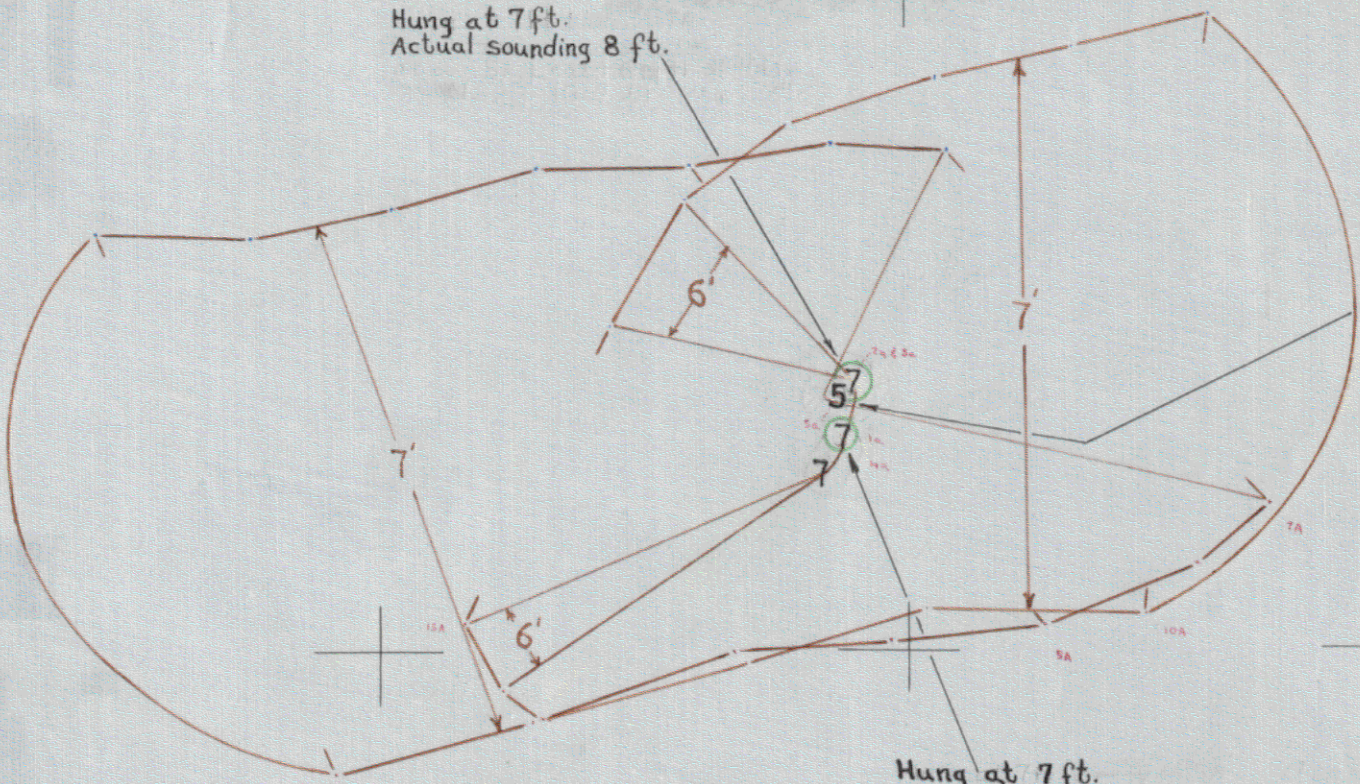
71° 48'

71° 47'

Hung at 7 ft.
Actual sounding 8 ft.

Hung at 7 ft.
Actual sounding 5 ft.
by handlead and
scuba-divers

Hung at 7 ft.
Cleared by 7 ft.
Actual sounding 8 ft.



WORK OF YEAR 1962
 WIRE DRAG OVERLAY
 TO ACCOMPANY
 WAHI-10-2-61 H-8616

71° 48'

71° 47'

NAUTICAL CHARTS BRANCH

SURVEY NO. H-8616

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
4/5/63	358	h.j. Keeler	Before After Verification and Review
9-25-63	#108	G.R. McCann	Before After Verification and Review Postponed pending application to Chart 1211
10-15-63	1211	John W Knoop	Partly applied Before After Verification and Review
10-17-63	1108	G.R. McCann	Before After Verification and Review <i>Partly applied</i> <i>No revisions</i>
1-4-66	271	h.j. Keeler	Before After Verification and Review <i>Fully app'd.</i>
10-28-66	271	J.T. Gallahan	Before After ^{set} Verification and Review <i>Fully applied</i> <i>add "Wreck" alongside 74</i>
12-28-66	1211	J.T. Gallahan	Before After Verification and Review <i>fully applied</i> <i>to Draw # 35 thru Draw 271</i>
1-18-67	1108	M.H. Mace	Before After Verification and Review <i>Fully applied thru 1211 Draw # 35</i>
8/8/68	358	John P. V. Li	Before After Verification and Review <i>Fully applied.</i>
2-10-73	271	H. R. Adder	Before After Verification and Review <i>& Insp.</i> <i>Re-applied in the Vic. of Quonochontaug</i> <i>pond entrance only.</i>
2-20-73	1211	Charles Healey	RE-APPLIED AFTER VERIFICATION, REVIEW, & INSPECTION IN THE VICINITY OF QUONOCHONTAUG POND ENTRANCE ONLY.
10-12-82	13214 (355)	Barbara Loretz	Applied 30', 60' & 120' curves only

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.