Diag. Cht. No. 1210-3

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

DESCRIPTIVE REPORT

(HYDROGRAPHIC)

Type of Surveyyurografinic
Field No. ECFP-1456
Office NoH-8313
LOCALITY
StateRhode. Is Jand
General Locality . Marragansett . Bay
LocalityGreenwich Bay
19 56
CHIEF OF PARTY
LIBRARY & ARCHIVES

☆ U.S. GOV. PRINTING OFFICE: 1976-669-441

on the Standards and examination for chart corrections and should be returned to Vault. Area Chief please send chargeout slip to Vault.

Chief, Marine Surveys Division

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-8313

Field No. ECFP-1456

State	Rhode Island		
General locality	Narragansett Bay		
Locality	Greenwich Bay		
Scale1:10,00	0	Date of survey	11 June to 6 Nov. 1956
Instructions dated	22/MEK, FP-East	Coast, dated	31 January 1956
Vessel	East Coast Field	l Party	
Chief of party	Marvin T. Pauls	on	
Surveyed by	R.A. Iewis, D.L	. Campbell & C.	W. Tupper
Soundings taken by fact	Danctas , graphic recor	der, hand lead, 🕊	ssx sounding pole
Fathograms scaled by	Party Personnel		
Fathograms checked by	Party Personnel	, Ak Schage	rld
Protracted by AK	schuqeld		
	•		·
Soundings in 2000	ssc feet at ML	W MXXXX and	are twe depths.
REMARKS:			
			···
		- B	2

DESCRIPTIVE REPORT TO ACCOMPANY

Hydrographic Survey H-8313 - Field No. ECFP-1456 Greenwich Bay, Rhode Island

PROJECT: 13870

1956

SCAIE 1:10.000

EAST COAST FIELD PARTY

MARVIN T. PAULSON, CHIEF OF PARTY

SURVEYED BY: R.A. Lewis, D.L. Campbell and C.W. Tupper

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 in the vicinity of Greenwich Bay. The limits are from latitude 41° 42' on the north to 41° 35.30' on the south, 71° 20' on the east to 71° 27.30' on the west.

Hydrography on this sheet began 11 June 1956 and ended 6 November 1956.

C. VESSELS AND EQUIPMENT

Iaunch CS-82 and CS-168 were used for the entire survey. The launches were based at Greenwich Cove for most of the season and then at Wickford for the remainder of the season. Launch CS-82, a 30 foot wooden launch, has a turning radius of 50 meters at half rudder and standard speed. Launch CS-168 has a turning radius of 20 meters at half rudder and standard speed.

The following fathometers were used on Launch CS-82;

TYPE SERIAL NO. #202 ~ 808J #77 ~

The following fathometers were used on Launch CS-168:

TYPE SERIAL NO. #201 #77 ~

On both launches, EDO-255 type fathometers were used with transducers mounted in a "fish" extended over the starboard side just aft of amidship.

The 808J type fathometer was used with transducer units mounted in the bilges.

D. TIDE AND CURRENT STATIONS

A portable automatic tide station at Greenwich Cove, Rhode Island, (Iat. 41° 39.75 'long. 71° 26.72') was used without time or range correction. Where East Greenwich tides were not available Providence State Pier No.1 tides were used in accordance with letter 36-292-15b dated 2 July 1956.

See Tide Note.

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

-1.

E. SMOOTH SHEET

The smooth sheet will be plotted by the Norfolk Processing Office.

F. CONTROL STATIONS

Control consisted of triangulation, topographic and photo stations. The following is a list of triangulation stations and the source of control for each:

STATION	G.P. PAGE	VOL.NO.	CH. OF PTY.	
Conimicut Lighthouse, 1897	109	1	D.B.W.	
Rocky Point (USE 1913)	109	1	J.B.B.	
Aldrichs Tower, 1912	108	1	R.I.Geod.S.	
Warwich Lighthouse, 1956	104	1	E.B.	
Bell, 1913	104		J.B.B.	
Patience, 1843	64	1	E.B.	
Pat, 1913	105	ī	J.B.B.	4
Prudence (USE 1909)	64	1	U.S.E.	
Der, 1913	105	1	J.B.B.	
Pine Hill (R.I. 1843)	120	1	E.B.	
Hope Island, 1843	69	1	$E_{\bullet}B_{\bullet}$	
Apponaug Court House Cupola, 1913	108	1	R.I.Geod.S.	
Apponaug Spire, 1843	108	1	R.I.Geod.S.	
Chip, 1913	105	1	J.B.B.	
East Greenwich Brick Chimney, 1913	107	1	R.I.Geod.S.	•
East Greenwich Yellow Chimney, 1913	107	1	R.I.Geod.S.	
East Greenwich Lutheran Church spire,	1913 107	1	R.I.Geod.S.	- !
East Greenwich Court House, 1913	107	1	R.I.Geod.S.	1
Sally, 1913	105	1	J.B.B.	
Camp Endicott elev. tank, 1944	97	1	I.E.R.	
Allen 2, 1944	94	1	I.E.R.	•
Camp Thomas elev. tank, east, 1944	97	1	I.E.R.	
Quonset Naval Air Station elev. tank,	•			ř
1944	96	1	I.E.R.	
Quonset Naval Air Station A.O.B. bldg.	No.61			,
Control tower, 1944	96	1	I.E.R.	14
QUONSET Naval Air Station elev. tank,			,	
south, 1944	94	1	I.E.R.	- 1
Flagstaff, 1913	106	Ł		
All topographic control was trans	sferred from to	opographic	sheets	,
PH-1-E-56, PH-1-G-56, PH-1-H-56, PH-1-	-L-56 and 6163	B.	planetable she	eţ.

G. SHORELINE AND TOPOGRAPHY

The shoreline and topographic detail shown on the boat sheet was transferred from tracings furnished by the photo party. These tracings were obtained from the chart using a projector to make the scale change.

The final shoreline and topography will be obtained from manuscripts prepared from photographs taken during the field season.

The low water line was not completely defined due to steep sloping ~ and rocky shoreline.

H. SOUNDINGS

All soundings on this sheet were made by fathometers as listed in section C, Except for a few isolated soundings taken in connection with bottom sampling and verification of least depths or those taken in depths too shoal for the fathometer.

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 two feet. This error will resolve itself when the smooth sheet is made.

Many strays were picked up with the EDO fathometers. All strays were investigated further in an attempt to verify or disprove the sounding.—An additional discussion is included in "Fathometer Report" Project 13870.

I. CONTROL OF HYDROGRAPHY

All hydrographic control was visual by sextant angles on shore objects. Positions were usually taken at $l\frac{1}{2}$ minute intervals. No unusual methods or adjustments were used.

J. ADEQUACY OF SURVEY

This survey is considered complete and adequate to supercede all prior surveys for charting purposes. Junctions with prior and contemporary surveys are satisfactory and depth curves can be adequately drawn at see review junctions.

K. CROSSLINES

Crosslines were run to the extent of 8 to 10% of the regular system of lines excluding developments and agreement was satisfactory.

L. COMPARISON WITH PRIOR SURVEYS See rewew

This survey was compared with prior surveys H-3572, 1:10,000 H-3571, 1:10,000, 1913. In general, the soundings shown on the old survey are in fair agreement with those on the new. Since the old survey is not as complete as the new, much of the necessary detail was omitted. Several shoals not found on the prior survey 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 See review

A comparison with Chart No. 278, 10th Edition, Print date 8/9/54 and Chart No. 236, 8th Edition, Print Date 2/20/56 shows no important differences except as listed in section N of this report.

N. DANGERS AND SHOALS

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

	DEPTHS						
				CHART	PRIOR SUR.	RECOMMENDATIONS	
1.	41° 38.98' ~ 71° 21.72' ~	Vol.7~ 40 m~	rk. bare 4'- MLW (foul)-	5.0		art new depth e pos. 39-42 m	

			DEPTH.		
NO.	LAT. & LONG.	POSIT. PRESENT SUR.	CHART	PRIOR SUR.	RECOMMENDATIONS
2.	4P 40.93/ 7P 23.87/	Vol.2 wreck bare 68 c 3' MIW	wreck		reliminary review tem.
3.	41° 39 ,19 71° 21 ,10	3.0° Vol.14° rk bare 2.5 ' 26 x - MIW (foul) -			hart new depth concur ee pos. 26-42 x
4.	41° 39.27× 71° 24.52×	Vol.14 tree snag- 54 y- bare 31 MIW	4.0	4.0 C	hart snag (Z)
5.	41° 39.04′ 71° 21.03∽	35 x MLW (foul)	3.0	2.0 C. SE offshore a	hart new depth of several
6.	41° 39.30 / 71° 24.39 /	Vol. 24 The bare 16 h = 1 MIN 2 below MLW.	0.0		hart new depth see additional rocks this vanity new from peror survey
7.	41° 39.67/ 71° 21.19/	37-3 30 cmb	18.0 (4)) Posit	1/0 0	hart new depth. See Pos. 11 "da" and review, section 9.
8,	41° 37.50~ 71° 23 .70	Vol.11 sand shoal 82-83 s-0.0 cocers	2.0 1-f+@	5.0 C	hart new depth Vconcu
9.	41° 39.39 71° 23.67	Vol.10- sunkon rk 107 q- 1.0' MIW-	1.0	2.0 C	hart new depth See reme
10.	0	15	mayer al	bstruction in 2fte mu	hart obstruction
·′ 11.	A	Vol.24 sunken snag- 6 h 20 Covered	7.0	7.0 C	hart snag
12.	41° 39.07/ 71° 21.26/	Vol.24 sunken rk	4.0 nooth plo	4.0 C Hed as awa	hart new depth
		Vol.24 sunken rk 2-3 J 4.0 MLW		5.0 C	hart new depth
14.	41° 39.07 / 71° 21.27 /	Vol.24 sunken rks < 4-5 j 3 0 MIW	4.0		hart new depth
15.	41° 40.45⁄ 71° 25.53⁄	Vol.24 sunken rk 15 h 4.0 MLW	4.0		reliminary Review tem - Chart new depth
16.	41° 39.41~ 71° 23.72~	Vol.16 sunken rkv 78 ba 4.0 MLW 3.0	6.0	7.0 C	hart new depth
17.	41° 36.37° 71° 22.30°	Vol.16 sunken rk 174 ba 5.0 MIN	6.0	H-3404 6.0 P	reliminary Review Item hart new depth ? Pos.
18.	41° 39.81 × 71° 21.67 ×	Vol.23 sunken rk- 127 d 5.0 MIW	5.0	5 _* 0 C	hart new depth
19.	41° 40.41 71° 25.57	Vol.17- sunken rk- 66 ca 7.0 MIW	10.0	12.0	hart new depth

	NO.	LAT	. & LONG.	POSIT	PRESENT SUR.	DEPTHS CHART	PRIOR	sur. 1	RECOMMENDATIONS
	20.		38.78× 21.47×		sunken rk 2.0° MIW 7.0°	10.0	12.0		new depth
	21.	41º 71º	39.91 21.40		sunken rk	7.0	disprove 7.0 50m So	*Chart	both depths.
	22.	410 710	40.43 20.84	Vol.23/	sunken rk	10.0	12.0		new depth
	23.	410	37.67 20.89	Vol.25	sunken rk	9.0~	24.0	Chart	new depth
	24.		37.79 20.78		sunken rk 9.01 MIW 8.4	9.0~	15.0	Chart	new depth
	25.	71°	37.71 20.81		sunken rk	18.0/	18.0	Chart	new depth
, , , , , , , , , , , , , , , , , , ,	26.	41° 71°	39 .28 23 . 60		sunken rk-	12.0	12.0	Chart	new depth
,	27.		38. 88 21. 71 70	Vol.15~		17.0	17.0	Chart	new depth
	28. j	41° 71°	40.43	Vol.3-	sunken rk/	14.0	15,0	Chart near it	new depth
,	29.	41° 71°	39. 29 23. 30	Vol.24-	12.0~	12.0	15.0	Chart	new depth
	30.	41° 71°	39.91	Vol.24/ 8 j/	12.0/	*11.0	16,0	-	old depth
	31.	41° 71°	38.41 21.66	Vol.8v	200.0/ 2010 Considered o	17.0 a strag.	20.0	Chart	new depth
•	32.	41° 71°	37.55/ 20.98/	Vol.7.	17.5 18.0	23.0	23.0	See re Chart	new depth 5 236
	33.	41° 71°	39.24, 24.66	Vol.20~ 7-31 ma	3.0	rock awash	200,	**Chart	old depth
	34.	41° 71°	39.71- 21.47-	Vol.19- 37-38 ja	6.0 °	3.0	.,3.0	**Chart	old depth
	35.	41° 71°	24.05	Vol.21/ 36-38 a/					new depth
	36.	41° 71°	40. 18 22.48	Vol. 14/ 52-53 Tu	9.0 .6.6	5.0 From H-9	7 4/5 46 10.0 W	7.13 10A **Chart - b	9 7/°22.47' old depth oth
		41°	39.77	Vol.24/ 43-58 g	13.0/	10.0	10.0 from H	*Chart -3572 Car	old depth
	38.	71 -	39. 78 39 .78 25.12 23./12	Vol.24/ 59-81 g,	14.0 /15.0/	12.0 12-ft for			old depth -
		,	ムンドドム						6

1. . . .

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NO.	LAT. & LONG.	POSIT.			PRIOR SUR.	RECOMMENDATIONS
39.	41° 40.25 ′/	Vol.24/	14.0 V	12.0	H-3572 (19/3) 12.0 *Chart deoths	rt old depth from present survey.
	41° 40.59 / 71° 22.30 /			9.0		rt old dopth
				5.0	10.0 **Cha	rt old depth
41. 41° 36.90 Vol.11 10.0 5.0 10.0 **Chart old depth 71° 24.20 139-140 su { Since line change in vicinity. New See Revew {*Thouroughly investigated - wire drag required to disprove sounding. **Further investigation necessary. #Change in depth due to shifting sand along edge of channel.						

All charted dangers and shoals were found as charted except those listed above. In most cases a shoaler depth and/or a slightly different location was found. See review.

O. COAST PILOT INFORMATION

There are several changes necessary in the Coast Pilot Notes. These are reported in a Coast Pilot Report (Appendix E), a copy of which is attached.

P. AIDS TO NAVIGATION

See report on Form 567.

Following is a list of posi	tions of the	floating	aids to nat	rigation; spelling of buoy
NAME OR NUMBER	LAT. & LONG	DEPTH.	POSIT.	DATE LOCATED
Quonset Air Station Channel #578 Lighted bouy 22	41° 36.65/ 71° 23.74/	22 ⁄	Vol.11/ 65 s/	7/12/56
Bouy 24 Nm 49, 1958	41° 36.78/ 71° 24.17/	31~	Vol.11~ 142 s~	7/12/56
Bouy 25	41° 36.43 71° 24.97/	32 ⁄	Vol.11 93 s	7/12/56
Bouy 27	41° 36.52~ 71° 24.29~		Vol. 16- 1319 ba	8/16/56
Allen Harbor (private aids maint Barrel bouy Bl	ained by U.S 41° 37.08 71° 23.92	.N.) or Cha	rted position Vol.2V 92 d	s; or in number. 6/19/56
Barrel bouy B2	41° 37.12 71° 23.91	12	Vol.2/ 91 d/	6/19/56
Barrel bouy B4	41° 37.15 71° 24.02	8	Vol.2- 94 d-	6/19 / 56
Barrel bouy B6 boy located in charted are a	41° 37.12 71° 24.05	9-10	Vol.2/ 93 d	6/19/56
of "B3", Buoy 6 not located. Red spar bouy	41° 37.28~ 71° 24.43~	9 1	Voi.11~ 109 s~	7/12/56

NAME OR NUMBER	LAT. & LONG.	DEPTH.	POSIT. D	ATE LOCATED
Allen Harbor (cont'd) Black spar bouy	41° 37.23/ 71° 24.46/	6×	Vol.11 110 s	7/12/56
Greenwich Bay Approach *Mooring bouy W9 ** Special purpose buoys **Non 10 of 1955 *Mooring bouy W10	41° 36.79/ 71° 21.26/	28/	Vol.8-	7/2/56
Mooring bouy W10	41° 37.28- 71° 21.33~	25~	Vol.9- 118 n-	7/3/56
Warwick Narrows west bouy 5	41° 37.94/ 71° 22.29/	20	Vol.10/ 105 r/	6/11/56
Warwick Narrows east bouy 2	41° 38.26~ 71° 22.18~	19	Vol.10~ 104 r~	6/11/56
Round Rock Bouy 1A	41° 39.36′ 71° 23.5½/	2011	Vol.4/ 113 g/	6/25/56
Patience Island lighted bouy 2A Bell	41° 39.66~ 71° 22.41~	35~	Vol.1- 1 b/	6/13/56
Greenwich Bay Can bouy 1	41° 40.25~ 71° 23.25	18	Vol.2- 1 c-	6/14/56
lighted bell bouy 3	41° 40.55 71° 24.49 25	13~	Vol.6~ 172 kr	6/28/56
can bouy 3	41° 40.54° 71° 24.49	13/	Vol.6- 173 k-	6/28/56
min bouy 2	41° 40.21 71° 26.38	11	Vol.2/ 2 d/	6/19/56
can bouy 5	41° 40.04~ 71° 26.68~	13	Vol.2~ 1 d~	6/19/56
Providence River Approach Fork Rock Bouy	41° 40.57× 71° 20.90×	22	Vol.17/ 88 da/	8/20/56

Q. IANDMARKS FOR CHARTS All landmarks for charts were reported by Photo. Party No.1 on Form 567.

R. GEOGRAPHICAL NAMES

There are no new geographical names to report.

S. SILTED AREAS Not applicable

U-Y MISCELLANEOUS

See Fathometer Report 1956 Season - Project 13870.

It is to be noted that extensive plans for Narragansett Bay have been discussed by the Army Engineers and various city and state officials concerned with hurricane damage in Narragansett Bay. Plans have been set forth for a tide barrier across the entrance to the bay near Newport, Rhode Island and other damage barriers inside the bay, including one such barrier near Fox Point near latitude 41° 48.85, longitude 71° 24.00. There has been no construction started on these barriers and they still are in the preliminary planning stage.

TABULATION OF APPLICABLE DATA

As noted in Item H, bar check, tabulations, velocity curves and fath- ometer report will be transmitted as a separate report.

A report of proposed changes in apponaug Cove will be submitted under - separate cover as a separate report.

Respectfully submitted

Donald L. Campbell

LT., C&GS

Approved and forwarded,

Marvin T. Paulson, ICDR., C&GS Chief of Party

ATTACHMENTS

Appendix

A - List of Control Stations

B - Abstract of Velocity Corrections

C - Statistics

D - Tidal Note

E - Coast Pilot Report

F - Approval Sheet

APPENDIX A LIST OF CONTROL STATIONS SHEET H-8313(ECFP-1456) PROJECT 13870

NAME U	SED CRIGIN	NAME	USED ORIGIN
ABE	PH-1G-56	*EVA	PH-1-G-56
ACE	PH-1-G-56	FAR	PH-1-G-56
MIA	PH-1-G-56	FIN	PH-1-G-56
ALD	Aldrichs Tower	FIT	PH-1-H-56
	1912	*FOG	PH-1-G-56
ALL	Sally, 1913	FOX	PH_1_H_56
ALP	PH-1-E-56	FUN	PH-1-G-56
AMP	Camp Endicott	GAD	PH_1_E_56
	elev. tank, 1944	GAG	PH-1-G-56
*AMY	PH-1-G-56	GAL	PH-1-H-56
ANN	PH-1-H-56	GAS	PH-1-G-56
ART	PH-1-G-56	GEM	PH_1_G_56
BAG	PH-1-G-56	GIG	PH_1_E_56
BAT	PH-1-G-56	GUM	PH-1-H-56
BELL	BELL, 1913	*GUS	PH-1-G-56
BIB	PH-1-E-56	HAT	PH-1-G-56
*BOA	PH-1-G-56	HEX	PH-1-H-56
BOR	PH-1-H-56	HIM	East Greenwich
BUM	PH-1-H-56		yellow chim.,1913
BUS	PH-1-G-56	HIS	PH-1-G-56
BUT	PH-1-E-56	HOP	PH-1-G-56
CAB	PH-1-G-56	*HUB	PH-1-G-56
CAW	PH-1-H-56	HUM	PH-1-H-56
CHI	6163-C	ICE	PH-1-G-56
CHIP	CHIP,1913	IDA	PH-1-H-56
COD	PH-1-E-56	IRE	East Greenwich
CON	Conimicut		Lutheran Church
	Lighthouse, 1897		Spire, 1913
COP	PH-1-G-56	IRK	PH-1-G-56
*COT	PH-1-G-56	ITS	PH-1-H-56
COW	PH-1-H-56	IVE	PH_1-G-56
CUP	6163 - C	HKT	PHYXXXXXX
CUPO	Apponaug Court-	HKX_	KHXXXXXX
	House cup.,1913	JAR	PH-1-G-56
CUT	PH-1-G-56	Jaw	PH-1-G-56
DEB	PH-1-H-56	JOE	PH-1-G-56
DER	PH-1-H-56	JOY	PH_1_H_56
DIP	PH-1-G-56	JUT	РН-1-Н-56
DIX	PH-1-G-56	KED	PH_1_G_56
DOG	PH-1-G-56	KEN	PH_1_G_56
DON	PH-1-E-56	KEY	PH_1_G_56
DOT	PH-1-H-56	KIM	РН-1-Н-56
*DUD	PH-1-G-56	LAM	PH-1-G-56
EAR	PH-1-G-56	IEA	PH-1-H-56
EAS	Camp Thomas elev.		PH-1-G-56
	tank, east, 1944	LEN	ALLEN 2, 1944
EAT	PH-1-G-56	IET	PH-1-G-56
ELF	PH-1-H-56	LIP	PH-1-H-56
END	PH-1-G-56	*LOG	PH_1_G-56
		MAG	PH-1-G-56

LIST OF SIGNALS (CONT'D)

NAME (ISED ORIGIN	NAME U	SED ORIGIN
MAN	PH-1-E-56	RIG	PH-1-G-56
MAR	PH-1-G-56	RIP	PH-1-G-56
MAX	PH-1-H-56	ROL	Quonset NAS, A.O.B.
MID	PH-1-H-56		Control tower, 1944
MOO	PH_1_L_56	SAD	PH_1_G_56
NAT	PH-1-G-56	SAL	PH-1-G-56
NEW	PH-1-G-56	SIP	PH-1-H-56
NIP	PH-1-G-56	SOD .	6163 - C
NON	PH_1_H_56	STY	ROCKY POINT
NOR	Quonset NAS		(U.S.E.), 1913
	elev.tank, north,	SUB	PH-1-G-56
	1944	SUE	PH-1-H-56
NUB	PH-1-H-56	TAN	PH_1_G_56
OAK	PH-1-G-56	TANK	Quonset NAS elev.
ODD	PH-1-G-56		tank, south, 1944
OIL	PH-1-G-56	TAP	PH-1-G-56
ORA	PH-1-H-56	TAX	PH_1_H_56
OUT	PH-1-H-56	TEL	6163 - C
PAL	PH_1_G_56	TOY	PH-1-H-56
PAT	PAT, 1913	USE	East Greenwich
PATI	PATIENCE, 1843		Court House, 1913
PAW	PH-1-H-56	VAN	6163 - C
PEG	PH-1-G-56		PH-1-G-56
PINE	PINE HILL (R.I.),	VIA	PH-1-H-56
	1843	VIM	PH-1-G-56
PIT	PH-1-H-56	WAG	PH_1_G_56
PIX	PH-1-H-56	WAR	Warwick Light-
POL	PH-1-E-56	•	House, 1956
PUP	PH_1_G_56	WAS	PH_1_G_56
QUO	PH-1-G-56	WEE	PH_1-H-56
RAG	PH_1_G_56	YEA	PH-1-G-56
REV	PH_1-H-56	YES	PH_1_G_56
RIC	East Greenwich	YET	PH_1_E_56
	brick chim., 1913		PH_1_G_56
RID	PH-1-H-56	Z 00	PH_1_G_56

*Located photogrammetrically

APPENDIX B ABSTRACT OF VELOCITY CORRECTIONS PROJECT 13870 SHEETS H-8316; H-8315; H-8314; H-8313; (ECFP 1856)

GROUP I

LAUNCH CS-168

FATHOMETER NO. 808 #77

SHEETS: *H-8314

**H-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	(ft.)
0 to 33.0 33.1 to 36.5 36.6 to 39.1 39.1 to 45.0 45.1 to 70.0	0.0 † 0.2 + 0.4 + 0.6 + 0.8	

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 accordingly to keep the velocity correction at zero.

GROUP II

LAUNCH CS-168 FATHOMETER NO. EDO #201 SHEETS: *H-8314; **H-8316; #H-8313; ##BCFP-1856

*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
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 (CONT'D.) ABSTRACT OF VELOCITY CORRECTIONS

PROJECT 13870

SHEETS H-8316; H-8315; H-8314; H-8313; (ECFP-1856)

GROUP III

LAUNCH CS-82

FATHOMETER NO. 808 #77

SHEETS: H-8316; H-8314

11/7/56 only

TABULATIONS OF RESULTS (SEE NOTE BELOW)

DEPTHS (ft.) 0.0 to 15.0 CORRECTIONS (ft.)

0.0 15.1 to 48.0 - 0.2 48.1 to 70.0 0.0

NOTE: Initial setting is 0.0

GROUP IV

LAUNCH CS-82

FATH. NO. EDO-202

SHEETS: *H-8314; **H-8313

#H-8315; ##ECFP-1856

*5/28 to 6/8 **6/11 to 9/26 #7/26 to 10/17 ##9/4 to 10/25

TABULATIONS OF RESULTS (SEE NOTE BELOW)

DEPTHS (ft.)	CORRECTIONS (ft.)
21.1 to 27.5 27.6 to 36.0 36.1 to 46.0 46.1 to 54.0 54.1 to 59.0 59.1 to 64.0 64.1 to 69.0	0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.5 2.0

NOTE: Initial setting is 1.0 feet.

STATISTICS (CONT'D)

LAUNCH C	VOL.	DAY	NO. POSI	TIONS	STATUTE
	NO.	LTR	FATH.	D.P.	MI. SDG
10/26	24	g	107	3 -	9.2
10/29	24	h	0	16	0.0
10/30	24	j	19	13	1.877
10/30 10/31	24&25	k	117	2	9.1
11/1	25	1 .		4_	0.0
	TOTA	IS CS-168	706	71	69.79
	TOTALS BOT	H LAUNCHES	4,83Ø ⁵⁵	326	58465 88.8

AREA COVERED - 14.3 sq. statute miles

Grand total positions:

APPENDIX C STATISTICS SHEET H-8313(ECFP-1456) PROJECT 13870

DATE	VOL.	DAY		POSITIONS	STATUE
	NO.	LTR.	FATH.	D.P.	MI. SDG.
19 56					
6/11	1	a	40	0	
6/13	ī	b		9	5.5
6/14	2		150	1	21.0
6/19		C	87	23	11.8
6/19	2&3	đ	149	0	20.5
6/20	3	е	115	0	10.9
6/22	3&4	f	183	0	21.9
6/25	4&5	g	170	2	20.0
6/26	5 6	h	141	1	20.8
6/27	6	j	10	1	1.4
6/28	6	k	168	5	20,2
6/29	6&7	1	176	Ó	25.5
7/2	7&8	m	203	6	29.4
7/3	8&9	n	218	· ĭ	~7•4 22 0
7/9	9	p	0		33.0
7/10	9&10			25	0.0
7/11	10&11	q 	96°	16	5.1
7/12		r	197	2	32.6 35.7
7/13	11	s	192	5	27.4
	12	t	45	1	4.0
7/16	12	u	161	3	23.8
7/17	13	v	139	14	20.7
7/18	13&14	W	137	5	18.9
7/19	14	x	0	47	0.0
7/20	14	y	84	. 3	11.5
8/14	15	Z	120 125	í	10.9
8/15	15 <u>&</u> 16	aa	158	4	16.0
8/16 8/17 8/20	1 6	ba	196	7	22.1
3/17	17	ca	122	5	23.1
3/20	17	đa	87		12.8
3/22	18	ea	71	23	12.4
3/23	18	fa	50	0	5.3
3/27	18		122	1	4.6
3/28	19	ga		0	13.9
₹/2a	19&20	ha.	78	6	7.1
2/20	20	ja la	167	9 27	16.0
3/30 9/4 9/26		ka	19	27	1.4
1/4	20	la	12 32 29	0 2	1.4
720	20	ma	. 32	2	1.8
.1/6	20	na	<u> </u>	0	3.2
		TOTALS	4,12/4	255	514.6 578.9
AUNCH CS	-168		•		57B.9
15	21	_	300		•
/16		a.	123	14	15.9
23	21	ъ	78	1 1 8	9.7
0/2~	22	C	43	1	4.9
0/17	23	đ	119	8	10.2
.0/24	23	8 .	71	4	6.9 2.3
.0/25	24	f	29	5	2 2

APPENDIX D

TIDAL NOTE FOR HYDROGRAPHIC SURVEY H-8313 (ECFP-1456) PROJECT 13870

All tidal data for reducing soundings was obtained from portable tide gages at East Greenwich, Rhode Island and Providence State Pier No. 1.

EAST GREENWICH, R.I. Gage: Lat. 41 39.85 LONG. 71 26.70

Staff: Mean low water corresponds to 0.4 ft. on staff.
Correction: No time or height correction.

PROVIDENCE STATE PIER NO.1

Gage: lat. 41° 48.41 No.7 on H-8313
long. 71° 24.09

Staff: Mean low water corresponds to 0.0 ft. on staff.

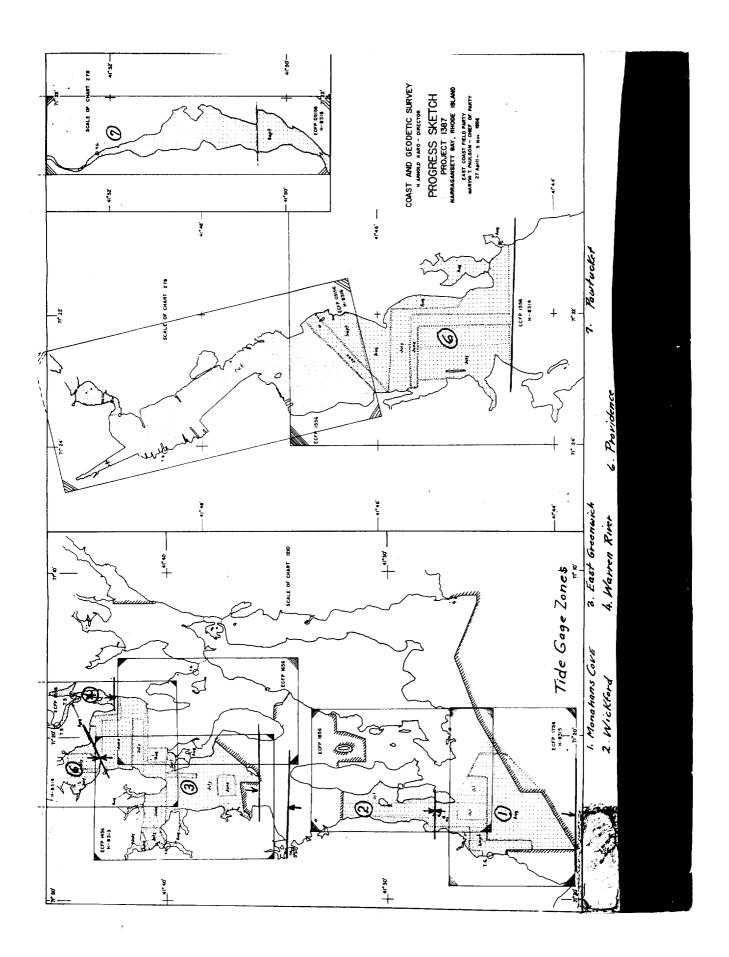
Correction: Time correction 0 mins.
height ratio 0.8.

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

36-292-15b dated 2 July 1956 36-11-15b.2 dated 29 January 1956

See sketch for zones. - attached

H- 8313 (1956) falls in Tidal zone #3



APPENDIX / E

COAST PILOT REPORT Atlantic Coast (5th Edition) Section B - Cape Cod to Sandy Hook

Page 219, line 46, read;
-ville Depot had a depth of 30 feet

Page 220, line 14, read; -channel which had a controlling depth of 8 feet in 1956. Inside the harbor is a basin -

Page 220, line 19, read; shore. (delete the remainder of line)

Page 220, line 26; (delete)

Page 221, line 20 & 21, (delete)

APPROVAL SHEET

BOAT SHEET ECFP 1456 (H-8313)

The hydrographic survey is approved as complete and adequate. The records were inspected almost daily by the chief of party as the survey progressed.

As stated in item "G" of the Descriptive Report, the shoreline was not available at the time of the hydrographic survey. The shoreline, in pencil on the boat sheet, was obtained by enlarging the shoreline of the printed chart; whereas this was a rough outline, few descrepancies were noted by the hydrographer. Part of the shoreline was inked by the hydrographer, but should have been left in pencil, except as noted in the sounding record.

The hydrographic investigations mentioned in Item "H" bear special attention, as much time was spent investigating the fathometer strays. A special fathometer report has been prepared as a guide to the interpretation of the fathograms. A more detailed investigation would have to be accomplished by a wire drag survey of the area of the strays.

The U. S. Engineers should be contacted for the latest information on contruction of basins and/or breakwaters before smooth sheet plotting.

Marin Transen

Marvin T. Paulson LCdr., C&GS, OinC

NORFOLK PROCESSING OFFICE LIST OF SIGNALS H-8313

TRIANGULATION STATIONS

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SOURCE PH-1-L-56

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# HYDROGRAPHIC STATIONS

Mud Pos. 14ea, Vol. 18

#### NORFOLK PROCESSING OFFICE ADDENDUM To Accompany

HYDROGRAPHIC SURVEY H-8313 (ECFP-1456)

#### GENERAL

This appears to be an excellent basic survey. The few minor discrepancies found are listed below.

#### OVERLAYS

The rather extensive development of fathometer strays is being submitted on six overlay tracings labeled "A" thru "F". Shoal depths have been transferred to the smooth sheet. Symbols on the overlays show positions of temporary marker buoys. Says were plotted from these overlays only where needed for least depths or to develop bettern. The overlays are filed in a day, launch 81, fathogram TIDES

Tide corrections on ca and na days, Lch.82, were re-entered in this Office to resolve crossing discrepancies. Hourly heights for these revisions were requested from the Division of Tides.

#### CHART COMPARISONS

Lat. 41-38.86', Long. 71-21.70' An uncharted 9' sounding falling near the 18' curve was found between positions 102 and 103n, Lch. 82. A confirming trace appears between positions 74 and 75y, Lch. 82. Some additional development shown on overlay "A" failed to confirm this sounding. (See All 1907) (1997) (1997) Echos were consisted Confirmed and are smooth plotted.

Positions 22 and 23x, Lch. 82, were not smooth plotted.

Positions 22 and 23x, Lch. 82, were not smooth plotted. They are supposed to show the location of the breakwater at Warwick Point but are in disagreement with the manuscript position which was retained on the smooth sheet.

Indicate hydrography of Topographic pos are in adequate agreement.

Position 122ga, Lch. 82, could not be plotted. This is a detached bottom sample. (vol. 18, p. 66) No O Bar on sheet. (BAR)

Using O Bor dees not check depth.

(BOR)

Norfolk, Va. 22May 1959 Respectfully submitted,

Hugh L. Proffitt

Cartographer

Norfolk is generally good and can serve

FORM 197 (3-16-55)

GEOGRAPHIC NAMES Survey No. H-8313	ß		of the of	S. Media	. S. S.	Hot	2. O. Guide o	AND MERSIN	ALIOS ANTI	<i>i</i> /
Name on Survey	os A	Chor. O	C 40. Of	J.S. Hab	or destroy	On Ice Had	Q. Gur	Alarid H	ALIS LANGE	
										<u> </u>
Rhode Island				for ti	re)				BGN	1
Narragansett Bay									11	2
Hope Island		<u> </u>			<u> </u>					3
Prudence Island										4
Sheep Pen Cove										5
Coggeshall Cove				<u> </u>		<u> </u>		<u> </u>		6
Patience Island	<u> </u>					ļ	<u> </u>	<u> </u>	<u> </u>	7
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Brush Neck Cove	·								·	10
Buttonwoods Cove										11
Greenwich Bay	•	,							BGN	.12
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# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. . 8313...

# Records accompanying survey:

Boat sheets .1...; sounding vols. .25..; wire drag vols. ....; bomb vols. ....; graphic recorder rolls 21-Envelopes special reports, etc. .1-Smooth sheet. 1-Descriptive report and 6-Overlays (tracings).

The following statistics will be submitted rapher's report on the sheet:	ed w	ith the	cartog-
Number of positions on sheet	-		5.161
Number of positions checked			.186
Number of positions revised	8		. <b>o</b>
Number of soundings revised and (refers to depth only)	99	- Coot	Several dozens to se surrounding hydro
Number of soundings erroneously space	ed	1020 40	O.
Number of signals erroneously plotte or transferred His-Pit-ALP	d <b>3</b>		. <b>Q</b>
Topographic details	7	Time	19. hrs.
Junctions	3	Time	24. hrs.
Verification of soundings from graphic record	3	Time	13.h.ts
Verification by	time	373.h	S. Date Dec. 6, 1961
Reviewed by Emest & Moman.	†ime	183	Date 5/17/62

#### TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens

10 July 1959

Plane of reference approved in 25 volumes of sounding records for

HYDROGRAPHIC SHEET 8313

Locality Narragansett Bay, Rhode Island

Chief of Party: M. T. Paulson

Plane of reference is mean low water, reading

0.4 ft. on tide staff at East Greenwich

28.7 ft. below B.M. 5 (1917)

Height of mean high water above plane of reference is 4.4 feet.

Condition of records satisfactory except as noted below:

Fillian Signature

Chief, Tides Branch

#### OFFICE OF CARTOGRAPHY

# REVIEW SECTION -- NAUTICAL CHART DIVISION

# REVIEW OF HYDROGRAPHIC SURVEY

### REGISTRY NO. H-8313

FIELD NO. ECFP-1456

Rhode Island, Narragansett Bay, Greenwich Bay

SURVEYED: June - November 1956

SCALE: 1:10,000

#### PROJECT NO. 387

SOUNDINGS: EDO Depth Recorder

808 Depth Recorder

Hand lead

Sounding Pole

CONTROL: Sextant fixes on shore

objects.

Chief of Party-----M. T. Paulson Surveyed by-----R. A. Lewis, D. L. Campbell, Protracted by-----A. K. Schugeld Soundings plotted by-----A. K. Schugeld

Inspected by-----R. H. Carstens

Date: 5/3/62

# Description of the Area

This survey covers part of the upper reaches of Narragansett Bay west of Prudence Island and includes Greenwich Bay and its tributaries.

The bottom is predominantly mud and sand, with irregularities, such as, shoals, flats, and natural random deeps. Numerous rocks and boulders, both awash and submerged are found in most inshore areas as well as in occasional offshore areas. To the southwest of Pine Hill Pt. on Prudence Island, shoal soundings indicate submerged pinnacle rocks rising 13 to 16 ft. from a generally smooth sand and mud bottom.

The dredging of channels, the spoil areas, and land fills has greatly altered the area in the vicinity of Allen's Harbor and Davisville Depot.

#### 2. Control and Shoreline

- a. The origin of control is adequately described in the Descriptive Report. The present hydrographic sheet is now the authority for the topographic signals since the graphic control sheets upon which they were originally located are to be destroyed.
- b. The shoreline originates with the advance manuscripts of photogrammetric surveys T-10480, T-10481, T-10487, T-10488, T-10489, and T-10495, of 1956, with revisions by the hydrographer in red.

#### 3. Hydrography

- a. Depths at sounding line crossings are in good agreement.
- b. The usual depth curves are in general adequately delineated, except where extensive areas of marsh grass and foul inshore areas frequently prevented development to the low-water line. The 3-ft. and 24-ft. curves were added to more adequately define the bottom configuration and to accentuate the natural channels.
- c. The development of the bottom configuration and investigation of least depths are considered adequate except:
  - (1) Numerous piers, groins, and similar alongshore obstructions charted from prior topographic surveys and aerial photographic revisions (Bp 48251 of 1951) in portions of Greenwich Bay and its tributaries have not been specifically investigated on the present survey or disposed of by the advance information of the contemporary photogrammetric manuscripts.

An example is the group of piers, presently charted (some as ruins) in lat. 41°41.25', long. 71°23.6' which were originally charted through T-5749 (1944); they were subsequently rebuilt

(photograph 54W1047) and again, apparently damaged by hurricanes of 1954.

- (2) The hydrography in the vicinity of the marine railway in lat. 40°41.80', long. 71°23.45' is incomplete and the prior coverage of H-940 (1867) is not adequate in this vicinity to supplement the present survey for charting.
- (3) The hydrography from the present survey is not adequate to define the bottom configuration in portions of the alongshore area at the west bank of Greenwich Cove. Soundings from prior survey H-3572 (1913) were carried forward to supplement the present hydrography.
- (4) The following are items which could not be reconciled by re-examination of the field records of both the hydrographic or topographic surveys and are called to the attention of the photogrammetric reviewer:

Feature	Lat.	Long.	H-8313 Elev.	T-Survey	Elevation
Islet Islet Islet Islet Islet Islet Islet Islet Islet	41°40.34 41°40.32 41°40.99 41°40.98 41°39.64 41°39.52	' 71°22.52' ' 71°25.57' ' 71°25.59' ' 71.25.60' ' 71°26.96' ' 71°21.92' ' 71°21.29'	2' MHW / 2' MHW /	10489 ? 10488 10488 10488 10487 10489 10489	Awash MHW Awash MHW (3) Awash MHW (2) Not shown Awash MHW Awash MHW

- d. The reef uncovering 1 ft. at MLW in lat. 41°39.7' fee A long. 71°21.18' conflicts with soundings of 16 ft. 1966 on a regular sounding line and maybe out of position. The contemporary photogrammetric survey and air-photographs show no indication of this low-water feature.
- e. Numerous strays, traces of fish, etc. on the EDO record precluded firm interpretation of the bottom profile. Some of the soundings and bottom configuration may be of questionable reliability.

# 4. Condition of Survey

The field plotting, sounding records, and Descriptive Report are adequate and conform to the requirements of the Hydrographic Manual except:

- `a. The following signals were found to be located in error and were revised on the smooth sheet of the present survey. Only critical hydrographic information located from the incorrect positions was revised on the smooth sheet.
  - 1. Station Pit in lat. 41°38.85', long. 71°24.67' was originally smooth plotted from PH-1-H-56 (Graphic control survey of 1956) and was replotted on the present survey in accordance with the photogrammetric location on T-10488.
  - 2. Station HIS in lat. 41°39.80', long. 71°24.67' and Station ALP in lat. 41°40.44', long. 71°22.53' were repositioned on the present survey during review by means of boat sheet descriptions and photgrammetric identification.
  - b. The lack of sufficient check-angles for many detached sextant positions resulted in the identical rocks from the photogrammetric survey having two locations. Additional time was necessary during review to reconcile these differences. Also the additional check angle would have provided the hydrographer with evidence of the faulty location of signals HIS, PIT, and ALP which were replotted during review. Sounding line positions involving these signals have not been corrected, in all instances, on the smooth sheet, but are considered adequate for charting.
- c. The use of weak inks for identification of sounding line positions for the majority of the smooth plot increased the time for processing of the survey in verification and review.
- d. Numerous items, further discussed in section 6 of this review, were not inspected at low-water as prescribed in the Hydrographic Manual.

#### 5. Junctions

An adequate junction was effected on the north with H-8314 (1956), on the northeast with H-8395 (1957), on the southeast with H-6859 (1943) and with H-6970 (1944) on the southwest.

#### 6. Comparison with Prior Surveys

# A. <u>Misc 20 (1832) 1/24,000</u> <u>USN Chart</u>

The few soundings on this prior reconnaissance survey which fall in the area of the present survey afford no adequate basis for cartographic comparison.

В.	H-880	(1865-67)	1/10,000	H-3565	(1913)	1/10,000
		(1867-68)		H-3571	(1913)	1/10,000
	H-940	· · · · · · · · · · · · · · · · · · ·	1/5,000	H-3572	(1913)	1/10,000
		(1912)	1/10,000			

These surveys cover the area of the present survey. A comparison between the prior and present surveys reveals only minor differences of 1 to 3 ft in depths which are attributed to methods of survey. An exception to this is in lat. 41°36.3' to 41°38.0', long. 71°23.3' to 71°25.1' where significant alterations by dredging, spoiling, and fill have been made since the surveys of 1913.

Generally, the present survey presents the more detailed hydrographic development of the area and verifies numerous charted dangers from the 1865-67 surveys that were not investigated by the 1913 coverage of the common area. Several new shoal and lesser depths on known shoals were found on the present survey. However, over 20 rocks awash or least depths on shoal features were carried forward to supplement the present hydrography.

Off Calf Pasture Point shoal flats of less than 6-ft. depths have accreted as much as 300 meters. Calf Pasture Rock is now within the shoal area and the name could well be omitted from the chart. No extensive natural changes in the bottom were noted in other areas.

Attention is specifically directed to the following items:

1. An unsupported 9-ft. sounding charted in lat. 41°40.59', long. 71°22.30' from H-3572 falls in 15-to 20-ft. depths

on the present survey in an area of close development and is considered discredited. The prior sounding appears to be one fathom too shoal possibly because of a recording error.

- 2. The 14 ft charted in lat. 41°39.90', long. 71°22.38' and the 18 ft charted in lat. 41°39.99', long. 71°22.20' from H-3572 are considered displaced and have been revised on the smooth sheet of H-3572 to corrected positions. The prior depths are now in agreement with depths from the present survey.
- 7. The 29 ft. charted in lat. 41°39.95', long. 71°22.12' and the 34 ft. charted in lat. 41°40.11', long. 71°21.99' from H-3572 are considered erroneous depths and possibly result from confusion in reading the hand-lead markings. The present depths in this vicinity are in good agreement with those of H-880. The 29-ft and 34-ft depths are considered discredited.
- 4. A rock awash at MLW (Flat Rock) charted in lat. 41°39.39', 6 long. 71°23.73' was protracted incorrectly on H-940 and in its true position agrees with details developed by the present survey. The prior position of the rock should be disregarded.
- 5. A rock awash (Old Sow Rock) is charted in lat. 41°37.23', long. 71°24.39' from T-912 (1868) and verified by H-939 as a rock awash at MHW (-4.5 ft) and similarly on H-3572. The rock was not specifically investigated on the present survey. However, regular sounding lines in the immediate vicinity were run at 2-ft stages of tide and no comments as to its existence are recorded. Nor does it appear on photographs taken at 2 ft. of tide. It is believed that the rock has been removed or lowered during improvements by the U. S. Navy in this area.

This survey with the above additions is adequate to supersede these prior surveys within the common area.

# Comparison with Chart 236 (latest print date 6/19/61) 278 (latest print date 11/27/61

a. These charts represent the largest scale coverage for the area of the present survey. The charted hydrography originates principally with the previously discussed prior

surveys, supplemented by partial application of the present survey through the boat sheet (Bp 54548) and the unverified smooth sheet.

- (1) The charted hydrography in the marked channel into Greenwich Cove is supplemented by letter 564 of 1949.
- (2) The center portion of Apponaug Cove was surveyed by the Corps of Engineers. (Bp 58661 of 1957 1/2,400). This survey is subsequent to and supersedes the present survey in the common area.
- The marina on the southern side of Chepiwanoxet Island in lat. 41°40.38' long. 71°26.60' is charted through Letter 249 (1958) and is subsequent to the present survey information.
- (4) The pier and groin charted in the vicinity of lat. 41°39.7', long. 71°24.6' originate with chart letter 840 of 1959 and are subsequent to present survey information.
- (5) A rock awash charted in lat. 41°39.35', long. 71° 21.93' originates with the incomplete manuscript of T-10489 and was not investigated by the present survey. The rock does not appear on the unreviewed compilation of T-10489 available at this time in the Washington office. Field investigation of the rock has been requested.
- (6) The <u>ruins</u> outline charted in lat. 41°37.45' long. 71°25.0' from T-5751 (1944) and corrections from air photographs of 1946 were not investigated on the present survey. Field disposition of this feature has been requested.
- (7) The 4, 12 and 13 charted in the vicinity of lat. 41°39.7', long. 71°22.12' are from the boat sheet of the present survey and were revised on the smooth sheet.
- (8) The sewer outfall charted in lat. 41°36.3', long. 71°24.8' is from Bp 38675 (1943) which is a Key Plan and is used as a base for outlining areas of after dredging of other than this immediate area.

The feature was not verified by the present survey or H-6970 (1944) where both surveys indicate depths of 15 to 17 ft at the charted offshore position of the obstruction. The photogrammetric field inspection of 1956 states that "no evidence was found" of the feature nor did it appear on T-5751 of 1944. The feature may be entrenched, but it is doubtful if it extends into the deeper water.

- (9) The 5 ft charted in lat. 41°40.69', long. 71°24. 76' originates with the boat sheet (Bp 54548) of the present survey and should be disregarded. The depth was revised to 8 ft in the volumes during smooth sheet plotting.
- (10) Numerous <u>rocks</u> awash in the vicinity of Warwick Point charted from the unreviewed survey were revised during review and are charted out of position.
- (11) The <u>rock awash</u> charted in lat. 41°36.52' long. 71°21.73' originates with a misplotted feature on the boat sheet of the present survey and should be disregarded.

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

# b. Controlling Depths

The charted information for the dredged dock areas at Davisville Depot is from Chart Letters 536 of 1957 (Bp 55049-10), 783 of 1957 (Bp 55658) and 334 of 1958, which are subsequent to the present survey.

The legend 28 FT JUNE 1956 in Davisville Depot Basin originates with the unverified smooth sheet and is in agreement with the present survey after review.

# c. Aids to Navigation

The charted positions of aids to navigation adequately mark the features intended.

Attention is directed to the disagreement in buoys, both in number and positions, along the dredged channel into Allen's Harbor. Chart Letter 224 (1963) provides the latest report of the positions.

The special purpose buoys "W9" and "W10" charted from NM 10 of 1955 south of Pine Hill Point do not agree with the survey positions by as much as 310 meters.

# 8. Compliance with Instructions

The survey adequately complies with the project instructions, except as discussed under sections 3 and 4 of this review.

# 9. Additional Field Work

The present survey is considered basic. Field verification of the position of the reef in lat. 41°39.7', long. 71°21.18' and other items have been previously recommended to Operations Division.

Examined and Approved:

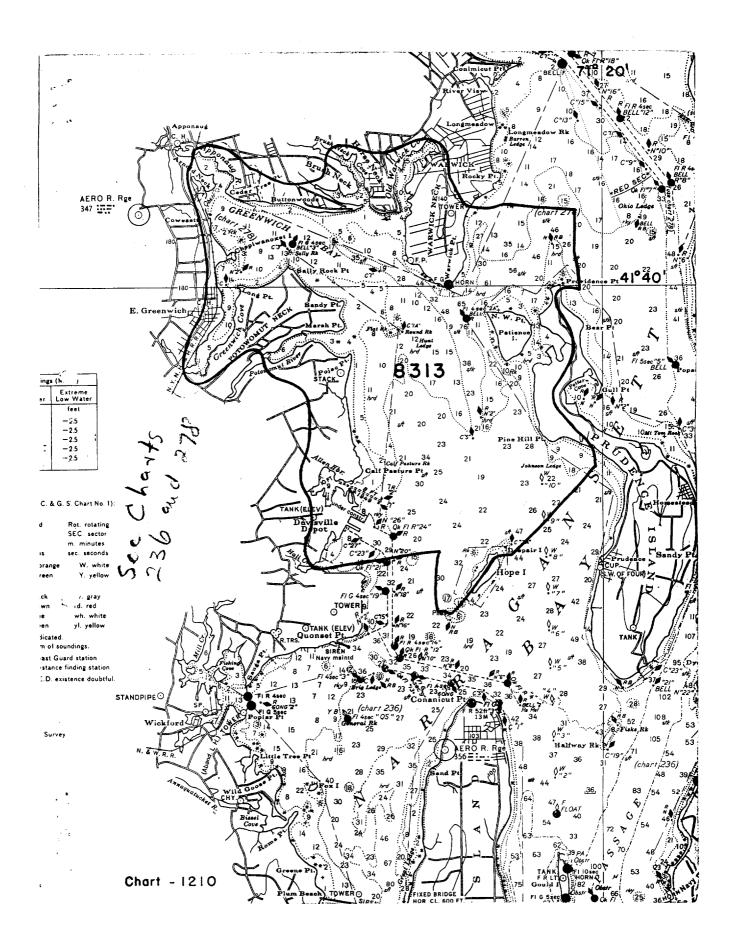
Nautical Chart Division

Applicant Director, Office of Cartography

Projects Officer.

Operations Division

sistant Director, Office of Oceanography



# NAUTICAL CHARTS BRANCH

# SURVEY NO. <u>H-8313</u>

# Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
6/23/59	236	SAM Jam	Before After Verification and Review
, ,			Vartisly applied. ~ RKD
6/25/59	353	Sam.	Beforé After Verification and Review
. /			Partially applied.
9-11-59	1210	3.m.albert	Partial win duy. 353 # >5 Before Mer Verification and Review
11-10-59	278	m. Rogers	Partially cyclic for critical changes  Reform New Verification and Review RATHER chart printed
9-16-60	353	R.K. Defander	Before After Verification and Review Thru Lungur
			Devtalla Applied
1-7-63	236	Heheodon Kadden	
3-8-63	353	m. Rogers	Partial application and Reviews thru chart 234
<u> </u>			dwg#30 In commonwarea -
1-20-64	278	G.R. Mª CANN	After Verification and Review FULLY APPD
1-20-64	353	5R.McCann	Defore After Verification and Review July apple only
7-27-64		R.E. Elkins	that part which fello on 278-
			Before After Verification and Review
7-26-65	236	G.R. MECANN	Fully applied After Verification and Review thru
			Chart 278 in grea covered by 278. Vand
12-4-68	#353	J.B. Perso	July applied ofter U & R.
	<del></del>		
			<i>;</i>
	<u> </u>		M.2168-1

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.

# 8313

Additional Work

Diag. Cht. No. 1210-3.

NOAA FORM 76-35A

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEAN SURVEY

# DESCRIPTIVE REPORT

(HYDROGRÁPHIC)

Type of Survey Hydrographic  Field No. ECFP-1456  Office No. H-8313 Ad.Wk.
LOCALITY
StateRhode Island  General Locality Narragansett Bay  Locality Greenwich Bay-Prudence I
19 62-63
CHIEF OF PARTYE.K. McCaffrey.and.K.A.MacDonald
LIBRARY & ARCHIVES
DATEJanuary24.,1964

☆U.S. GOV. PRINTING OFFICE: 1976-669-441



TO: The Director

Coast and Geodetic Survey

4 December 1963

FROM: Commanding Officer

USC&GSS WAINWRIGHT & HILGARD

SUBJECT: SPECIAL REPORT, SP 22-62 to Accompany H-8313 (ECFP 1456)

REF: INSTRUCTIONS, Special Project 1-63, 2100B-pt, S-2-WA&HI dated 19 March 1963 (Items No. 25 and 26)

Dates of Survey: September 19-22, 26 and October 8-9, 1962 May 16, 21-24 and June 5, 1963

In accordance with the above referenced instructions, additional hydrographic investigations were carried out as noted on the bromide print accompanying the blueline print of survey No. H-8313 (ECFP 1456).

Investigations proceeded in the following manner with results as noted:

Reference Chart 13223 (22nd Ed., Aug. 30, 1975) and 13224 (24th Ed., Dec. 27, 1975)

HYDRO-SKIFF, CS 771, a Day, 19 September 1962

- 1. Additional shoreline development was accomplished in approximate Lat; 41-39, Long: 71-27 (Pos. 1-33a), and the following alongshore features investigated, as noted on the bromide print: (bromide copy was not available) Some additional soundings were smooth plotted in the inshore development area.
- a. The charted marine railway in Lat: 41-39,21, Long: 71-27.13 was verified, extending approximately 20 meters offshore and awash at MLW (Pos. 6a). concur A float was also located in the area (Pos. 8a)
- b. The charted feature in Lat: 41-39.29, Long: 71-26.99 was found to be a small pier (Pos. 11a) from the boat sheet concur
- c. The charted pier ruins, in Lat 41-39.57, Long: 71-26.73 were found to be non-existant. (Pos. 28a) Concur
- 2. Numerous uncharted piers, small boat moorings, wharfs, platforms and other alongshore culture were also located (See sounding volume 'a' day for details). These newly becated features have been smooth plotted

# HYDRO-SKIFF, CS 771, b Day, 20 September 1962

3%. Additional shoreline developement was accomplished in approximate Lat:41-40, Long: 71-26.7 (Pos. 1-9b), and the following alongshore features investigated, as noted on the bromide print:(bromide copy was not ovailable)

- a. The charted pier ruins in Lat: 41-39.72, Long: 71-26.74 were found to be non-existent (Pos. 16 &17b). However, a group of approx. 17 pilings were located at the above positions
- b. The charted obstruction in Lat: 41-39.19, Long: 71-26.89 was found to be non-existent. (Pg. 23, Sounding volume, 'b' day) Concur. Obstr. not presently charted.
- c. The area in Lat: 41-39.97, Long: 71-26.17 was investigated for the reported pier removal. A timber groin was the only feature located in this area. Local information indicated that a temporary floating pier is used in the area during the summer season (pos. 3%b). concur Atimber groin was beated and smooth plotted of the above position.
- 4%. An uncharted small craft marina was located in Lat: 41-40.97, Long: 71-26.87 (Pos. 31-36b). In addition, numerous other charted and uncharted boat moarings, wharfs, floating piers, and other alongshore culture were also located, (See Sounding Volume, pos. 10 29b for details) and are smooth plotted.
- HYDRO-SKIFF, CS 771, c Day, 21 September 1962

  5 A private marker in lat. 41.40.65, long. 7/26.4 was located (Bs./c) It is not presently charbed.

  6 %. An uncharted small boat marina in Lat: 41-41.41, Long: 71-26.78 was verified (Pos. 2-10c). The Appenaug Horbar Marina was located at the above positions. It is presently charted on 278.
- 72. The pier charted in Lat: 41-41.33, Long: 71-26.9 was found to be non-existent (Page 30, sounding volume, c Day). The pier was visually investigated with in verification and local information indicated it was washed out in 1954. However, the pier should be charted as submerged pier ruins.

  83. The charted 6 foot sounding in Lat: 41-40.94, Long: 71-26.78 was
  - 83. The charted 6 foot sounding in Lat: 41-40.94, Long: 71-26.78 was developed with additional hydrography. No evidence of this sounding could be located with echo sounder (Pos. 11-26c). Least depths of 7 ft were located in the vicinity. Delete charted 6 and chart least present survey depths.

    Reference item 9: Chart present depths
- vicinity. Belete charted 6 and chart least present survey depths.

  9%. The 5 and 7 foot shoals in approximate Lat: 41-40.87, Long: 71-26.54

  were investigated with additional hydrography. Echo sounders failed to detect
  these shoal soundings (Pos. 27-74c). The 5 and 7 ft shoals were disproved by 20 meter line spacing
  afflication positions. Soundings of topined by the Additional present are in general agreement with surrounding area.

  The 5 ft said does not appear on the final inspected S.S. Subsequent to the blue line copy of the S.S.

  The charted of and 7 foot soundings in Lat: 41-40.31, Long: 71-25.19
- were developed with additional hydrography (Pos. 75-126c). Several erratic shoal soundings were indicated due to improper fathometer operation, which cannot be considered reliable. Therefore, further hydrography was accomplished in the area on 'h' Day, CS 771, 21 May 1963 (Pos. 2-33h) and on 'j' Day, CS 771, 22 May 1963 (Pos 1-15j). No evidence of the shoal soundings could be found during the 1963 season. The 7st. shoal sounding was disproved by deeper soundings of 1st during close line development. It is presently uncharted The 6st. subjected as subsequent to the blue line copy of the SS. HYDRO-SKIFF, CS 771, d Day, 22 September 1962
- 11 %. The charted rocks in approximate Lat: 41-40.62, Long: 71-26.41 were investigated with the following results:

- (a) The charted rock awash in latitude 41° 40.62', longitude 71° 26.40' was located 15 meters northwest of its. charted position, awash at MLW (pos. 1d) Arock awared / H. of NLW was confirmed 20 meters NW of the above position.
- (b) The charted rock awash in latitude 41° 40.64', longitude 71° 26.42' was investigated. A rock covered 3 feet at MLW, was found (pos. 2d). An additional rock was located approximately 10 meters east of above rock, covered 2 feet at MLW (pos. 3d). concur The Two covered rocks were smooths plotted of the above positions
- 12 %. The 3-foot rock charted in latitude 41 40.461, longitude 71° 26.351 was investigated and found to be non-existent (page 60, sounding volume, "d" day and pos. 1, "h" day CS-771, 21 May 1963). The 3 RK of the above position was not disproved or confirmed and should be retained. Retain as presently charted
- 13 %. Additional hydrography was accomplished, as directed by the bromide print, in the northern portion of Old Warwick Cove, latitude 41° 41.7', longitude 71° 23.40' (pos. 4d-12d, 24d-25d). In addition, 2 uncharted small-boat marinas were located in the area (pos. 13d-20d). Present chart reflects significant development in the area subsequent to the date of the present survey. Retain as presently charted.

# HYDRO-SKIFF CS-771 "e" day 26 September 1962

14. X. The charted rock awash and rock covered 2 feet in latitude 41° 39.31', longitude 71° 24.X' were investigated. Only the latter rock was verified, and found to be covered 3 feet at MIW (pos. le). A3RK was confirmed of the above position and the rock awash 30 meters west of the 3RK was not confirmed or disproved - retain.

# HYDRO SKIFF CS-771 "f" day 8 October 1962

- 15 % The 3 charted rocks awash in approximate latitude 41°39.40; 71° 21,9' were investigated with the following results:
  - A rock was located at pos. 6f (lat. 41° 39.42', long. 71° 21.95'). Chart as appropriate.

    (a) Charted rock awash in latitude 41° 39.40', longitude
  - 710 21.93' was verified, awash at MLW (pos. 5f). concur
    - (b) Charted rock awash in latitude 41° 39.39', longitude 71° 21.96' could not be located (pos. 6f). Charl as a submerged rock.
    - (c) Charted rock awash in latitude 41° 39.35', longitude (cov 2 ft.)
      71° 21.95' was not found by search (pos. 7f). A submerged rock, located at lat 41°
      39.35', long 71° 21.91' should be added to the chart
- 16 2. An uncharted rock in latitude 41° 39.72, longitude 71° 21.58' was located, covered 3 feet at MLW (pos. 8f).

  A 3RK was smooth plotted of the above position and is to meters sw of the charted 3RK in lat. 41°39.74', long. 71°21.50' Retain charted rocks in the area and chart the additional rock at the new position

#### HYDRO-SKIFF CS-771 "g" day 9 OCTOBER 1962

- 17 %. Rock detail was investigated in approximate latitude 41° 39.51, longitude 71° 21.31. The charted rock cluster in this area was verified, bare of feet at MLW, and its limits were delineated (pos. lg). In addition, the charted rock awash, 55 meters east of cluster could not be found, while Ag previously uncharted rock was located 30 meters south of the cluster, bare 1-foot at MIW (pos. 2g). The rock awash Ift. MIW located 30 meters south of the above position is presently uncharted (Pos. 2g)
- 18 X. The charted rock awash and rock covered 1-foot in latitude 41° 39.67', longitude 71° 21.17' was found to be non-existent (page 12, Sounding volume, "g" day; and pos. 52,

  "j" day, GS-771, 22 May 1963). Delete charted rocks. Search and air photos discredit a feature here Original positions were improperly revised by the smooth plotter. Feature replots in the vicinity of lat. 40° 38.78; long, 71° 21.03' Chart revised position of the referenced rock.

  19 %. The 3-footh shoal x charted in latitude 41° 39.74', longitude 71° 21.50', could not be located by hydrographic search (page 13 sounding volume "g" day: and pos. 3g = 25g% and 86-96 day.

(page 13, sounding volume, "g" day; and pos. 3g - 25gt, and 8l. 9. day;)

Hyperaprier considers 3 disproved. Concern Charted position is probably in error.

20 %. The charted shoal "boulders" in latitude 41° 39.91, Revise chart to agree with the longitude 71° 21.41 was investigated. This shoal consists work in the vicinity of a ridge of rocks extending north and south 100 meters with a least depth of 6-feet determined by leadline (pos. 26-28g). concur The TRK shoal is presently charted, however a GRK least depth in lat. 41.39.87 long. 7121.4 should be charted (Pos. 269).

# HILGARD'S Aluminum Skiff "a" day 16 May 1963

- 1. An uncharted small-boat marina was located in latitude
  41° 41.77', longitude 71° 23.49' (pos. la for detail).
  The floating pier was located in 1962 and is presently charted of the above position
  It was also located and confirmed in 1963.
  2. Investigation of reported pier ruins and obstructions piles was accomplished in Old Warwick Cove, south of latitude 41° 41.4', longitude 71° 23.5'. Features located were as follows:
  - (a) Numerous charted small piers in the area were found to be in poor condition, but the only pier ruins were at latitude 41° 41.22', longitude 71° 23.61' (pos. 4a). To resently uncharted
  - (b) Uncharted pilings were located as follows: As 3 a latitude 41° 41.24'; longitude 71° 23.59 You le bare 13 ft. MHW (presently uncharted 2a latitude 41° 41.40'; longitude 71° 23.59\pile bare 15ft. MHW (presently uncharted)

    5a latitude 41° 41.16'; longitude 71° 23.62' group of approx 77 pilings in ruins
    (positions 2a. 3a. & 5a)

    (presently uncharted)

# "h" day 21 May 1963

- 3 %. The rock charted awash in latitude 41° 39.25, longitude 710 24.661 was found to be non-existent (pos. 34h). Concur; investigation accomplished during a tide stage at approximately MLW and reported, "clearly visible" bottom.
- 4 % The group of 4 charted rocks awashkin approximate latitude 41° 37.9', longitude 71° 24.3' were investigated. Only two rocks could be found in the immediate area, one awash at MLW and the other, covered 1-foot at MLW (pos. 35h, pos. 64, "j" day, 22 May 1963). The remaining rocks are not disproved. See item No. 8 below
- 5 %. The charted rock in latitude 41° 37.967, longitude 71° 24.37', was verified, bare 1-foot at MLW (pos. 36h). The rock on the present smooth sheet, approximately 40-meters to the southeast of the recorded position, is not considered disproved.

# HYDRO-SKIFF CS-771 "j" day 22 MAY 1963

- 6 X. A hydrographic investigation failed to locate the charted ll-foot shoal in latitude 41° 39.93', longitude 71° 21.64' (pos. 16j-51j). However, an uncharted shoal 75 meters to the northeast of the sounding was found with a least depth of 12 feet determined by echo-sounder. Retain II-foot sounding on chart
- 7 %. The charted rock in latitude 41° 39.70, longitude 71° 21.4' was verified, covered 3 feet at MLW (pos. 53). A 3 RK was confirmed (pos. 112) of the above position. It is presently charted.
- 8 %. Uncharted rocks were found at the following locations:
  - (a) Latitude 41° 39.1', longitude 71° 24.31', covered 2
    feet at MLW (pos. 63j) 2 Rk was smooth plotted. It is presently charted

    (b) Latitude 41° 37.86', longitude 71° 24.29', covered 1—
    foot at MLW (pos. 65j). A rock covered 1 ft at MLW usus smooth plotted

    (c) Latitude 41° 37.87', longitude 71° 24.29', covered 21—
    feet at MLW (pos. 66j). A 2 Rk was smooth plotted

    (d) Latitude 41° 37.85, longitude 71° 24.29', bare 1-foot
    at MLW. A rock awash at MLW is a smooth plotted.

  - at MLW. A rock awash of MLW is a smooth plotted. (pos. 67)

#### HYDRO SKIFF CS-771 "k" day 23 MAY 1963

9 X. The charted nomenclature of aids and charted features within Allen Harbor were investigated, latitude 41° 37.4', longitude 71° 24.8' (pos. 14.19k; pos. 1-14, "m" day, 5 June 1963). These aids were changed after departure of survey party from this area. Buoy positions were not plotted due to subsequent
relocation.

Several dols, piling and ruins located during the present additional work (positions 1-15 k) are plotted in the area. Chart as considered appropriate.

- (a) Notice to Mariners, No. 27, July 6, 1963 (3417) (b) Notice to Mariners, No. 38, Sept. 21, 1963 (8427)
- 10 %. The charted rock awash in latitude 41° 36.32', longitude 71° 24.83' was verified, covered 2 feet at MLW, (pos.
  21k) In addition, an uncharted rock was also located 20
  meters southwest of the charted rock awash, covered 4 feet
  at MLW (pos. 20k). The reported existence of a sewer outfall line in this immediate area was also investigated and it was
  found to be non-existent. The rock awash was confirmed by a 2 kK is m west
  of the above position. A feet was becated on and of the 2 kK.

  HYDRO-SKIFF CS-771 "1" day 24 MAY 1963
- 11. X. The charted rock bare 1-foot in latitude 41° 39.07',
  longitude 71° 21.44' was verified, awash at MIW (pos. 11). Additional rocks were also
  A rock ewash of MIW was smooth plotted. It is presently charted. located in the area. They are
  2 ft. rock
  12. X. The charted in latitude 41° 38.78', longitude 71° 21.26' smooth plotted.

was verified, covered 3 feet at MLW (pos. 61). An additional uncharted rock, covered 2 feet at MLW, was located 20 meters northwest, (pos. 51). A 3 RK at pos. 62 and a 2 RK at pos. 52 were smooth plotted

- The charted rock in latitude 41° 38.56', longitude 71° 21.24' was verified, covered 1-foot at MLW (pos. 71).
  Arack covered /fl. at MLW was smooth plotted and located 40 m NE of the above position

  14 %. Additional uncharted rocks were located as follows:
  - (a) Latitude 41° 39.75', longitude 71° 21.5%' covered 4 feet at MLW (pos. 81) A 4 Rh is 3 mooth plotted
  - (b) Latitude 41° 39.74', longitude 71° 21.44' covered 5 feet at MLW (pos. 91). A 5 RK is smooth plotted
  - (c) Latitude 41° 39.72', longitude 71° 21.41' covered 4 feet at MLW (pos. 101). A 4 RK was smooth plotted
  - (d) Latitude 4139.7, Longitude 721.4 covered 3 ft at MLW (pos. 41L) see item 7 (pos. 53) abore. HYDRO-SKIFF CS-771 "m" day 5 June 1963
- 15 & Refer to "k" day, 23 May 1963 Allen Harbor development.

  Several pikes, dolphins and booys were located by detached positions in Allen Harbor

  LAUNCH CS-181 "a" day 23 MAY 1963
- 16 %. The charted 17-foot sounding in latitude 41° 37.55', longitude 71° 20.98' was developed with additional hydrography. This shoal was verified and a least depth of 18 feet obtained by echo sounder (pos. 4a-39a). The 17 ff. shoal is supported by 18 and 19 ff. depths at the above position. Retain charted 17 ft sounding.
- 17 %. The charted 18-foot shoal in latitude 41° 37.50', longitude 71° 20.57' could not be found by additional hydrography (pos. 40a 62a) The 18-ff sounding of the above position was not confirmed or disproved and should be retained. It is presently charted.

# HILGARD A & B days 22 MAY 1963

- (Add a depth curve to the chart) (Add a depth curve to the chart)
- 19 %. The charted shoal area in latitude 41° 37.45°, longitude
  71° 22.15° was developed with additional hydrography. Retain as presently charted.
  The shoal in the vicinity of the above position was not adequately developed to confirm or disprove
  the shoal. It is presently charted and should be retained.

Accepted hydrographic procedures were followed in carrying out these investigations. Launch CS-181 was equipped with Raytheon echo sounder #211; CS -771 with Raytheon #215 & 244; and HILGARD with Raytheon #541. Pole soundings were obtained where necessary and check angles taken on all located features. All control used exists on the blueline print of survey H-8313. no lead line was utilized on detached positions

# ABSTRACT OF CORRECTIONS TO ECHO SOUNDINGS

<u>1962</u>	<u>1963</u>		
SP 22-62, Survey H-8313	SP 22-62, Survey H-8313		
Hydro Skiff CS-771; Fath. #244	Hydro-skiff CS-771; Fath. 215		
Depth Correction	Depth Correction		
0.0	-1.6' 0.8		
+0.2 28.0	-1.4		
+0.4 36.0	6.0 -1.2		
<b>+</b> 0.6	12.7		
42.0 +0.8	-1.0 21.7		
46.0 +1.0	-0.8 40.0		
50.0	-1.0 & on		
<u>1963</u>	1963		
SP 22-62, Survey H-8313	SP 22-62, Survey H-8313		
Launch CS-181; Fath. #211	HILGARD; Fath. #541		
0.0	0.0		
0.0 0.0 6.3	0.0 +0.4 4.3		
0.0 6.3 +0.2	0.0 +0.4 4.3 +0.6		
0.0 6.3 +0.2 14.3	0.0 +0.4 4.3 +0.6 18.3		
0.0 6.3 +0.2 14.3 +0.4 20.3	0.0 +0.4 4.3 +0.6 18.3 +0.8 27.9 +1.0		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8	0.0 +0.4 4.3 +0.6 18.3 +0.8 27.9		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1	0.0 +0.4 4.3 +0.6 18.3 +0.8 27.9 +1.0 & on		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8 32.7 +1.0	0.0 4.3 +0.6 18.3 +0.8 27.9 +1.0		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8 32.7 +1.0 40.0 +1.2	0.0		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8 32.7 +1.0 40.0 +1.2 47.1 +1.4	0.0		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8 32.7 +1.0 40.0 +1.2 47.1 +1.4 55.3 +1.6	0.0		
0.0 6.3 +0.2 14.3 +0.4 20.3 +0.6 26.1 +0.8 32.7 +1.0 40.0 +1.2 47.1 +1.4 55.3 +1.6	0.0		

#### TIDE NOTE

Newport, Rhode Island standard tide gage, with hourly heights furnished by the Washington Office, was used for tidal data. Because of significant range and time differences, the following corrections were taken from C&GS Tide Tables for Greenwich, R. I., Sandy Point - Prudence Island, and Wickford, R. I., then applied to actual heights observed at Newport, Rhode Island:

Greenwich, R. I.

High Water: +16 min. +0.5 feet

Low Water: +08 min. +0.0 feet

Sandy Point - Prudence Is.

High Water: +10 min. +0.4 feet

+0.0 feet Low Water: +09 min.

Wickford, R. I.

High Water: +12 min. +0.3 feet Low Water: +07 minutes +0.0 feet

Danell W. Crawford
Darrell W. Crawford

LT, C&GS

Approved and Forwarded:

Edwin K. McCaffrey, LCDR, C&GS

Commanding WAINWRIGHT & HILGARD

# TIDE NOTE FOR HYDROGRAPHIC SHEET

February 5, 1964

Nautical Chart Division: R. H. Carstens

Plane of reference approved in 5 volumes of sounding records for

HYDROGRAPHIC SHEET8313 Add. Wk.

Locality Narragansett Bay, Rhode Island

Chief of Party: K. A. McDonald (1962) & E. K. McCaffrey (1963)

Plane of reference is mean low water

ft. on tide staff at

ft. below B. M.

Height of mean high water above plane of reference of the working grounds is 4 feet.

Condition of records satisfactory except as noted below:

Tide reducers for the following positions have been revised in red and verified.

22 j-38j

1 A-55A 2c- 40c

3g- 25g

64j-67j

# Hydrographic Surveys (Chart Division)

# HYDROGRAPHIC SURVEY NO. 8313.Ad. Wk.

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boat sheets .2; sounding vols. 5; w			
Descriptive Reports .1; graphic reco	rder env	elopes	5;
special reports, etc	•••••	• • • • •	• • • • • •
	• • • • • • •	••••	•••••
The following statistics will be submitted wi rapher's report on the sheet:	th the c	ertog-	
Number of positions on sheet		6 4.5	
Number of positions checked		• • • • •	
Number of positions revised		•••••	
Number of soundings revised (refers to depth only)		••••	
Number of soundings erroneously spaced		• • • • •	
Number of signals erroneously plotted or transferred		•••••	
Topographic details	Time	•••••	
Junctions	Time	• • • • •	
Verification of soundings from graphic record	Time	••••	
Special adjustments	Time	• • • • •	
Verification by			
Reviewed by Mark J. Friest Time Consony Long	•••••	Date (	1-2-76
12-17-79 48 has			

# Items for Future Presurvey Reviews

Items numbered 14 and 18 of the 1962 Ad. Wk. and item 18 of the 1963 Ad. Wk. listed in the Descriptive Report of H-8313 Ad. Wk. originate with the 1956 work and prior surveys. They were investigated but not found by the hydrographer and are not considered confirmed or disproved. The referenced items should be investigated by thorough development and/or wire drag during future work in the area.

### OFFICE OF MARINE SURVEYS AND MAPS

### HYDROGRAPHIC SURVEYS DIVISION

### MODIFIED HYDROGRAPHIC SURVEY REVIEW

REGISTRY	NO.	H-8313	Ad.	Wk.

FIELD NO. ECFP-1456

Rhode Island, Narragansett Bay, Greenwich Bay - Prudence Island

SURVEYED: September 19-22, 26, October 8-9, 1962; May 16, 21-24, June 5, 1963

SCALE: 1:10,000 PROJECT NO.: SP-22-62, SP-1-63

SOUNDINGS: DE-723 Depth Recorder, Pole CONTROL: Sextant Fixes on

Shore Signals

Chief of Party ..... K. A. MacDonald .... E. K. McCaffrey

Surveyed by ...... R. R. Floyd, W. D. O'Neill J. R. Lewis, E. J. Murphy

Verified by ...... M. J. Friese

Reviewed by ..... M. J. Friese

Date: November 2, 1976

Cursory inspection made--survey Kenneth W. Wellman processing considered complete ...... December 17, 1979

# 1. Purpose of Survey

The purpose of the additional work of 1962-63 was to accomplish additional hydrography in sparsely sounded areas and to investigate several rocks, piles, dolphins, groins, piers, and shoal soundings originating with H-8313 (1956) and those which had been carried forward from prior surveys.

# 2. Office Work

The results of the additional work have been plotted on the smooth sheet of H-8313 (1956) in violet ink.

In several cases, inadequate investigations by the field party precluded resolution of specific items. The smooth plotting was limited to that necessary to adequately portray the individual items under investigation. In cases where hydrographic development revealed no new information, smooth plotting was minimized and only a few representative soundings were plotted.

The individual items are adequately discussed in the Descriptive Report for the Additional Work. Suitable annotations were added in red during review

H-8313 Ad. Wk.

and inspection. With the supplemental annotations, the Descriptive Report is considered adequate and no further comments in the Review Report are considered necessary.

Examined and Approved:

Hydrographic Surveys Division

FORM C&GS-8352 (3-25-63)

### NAUTICAL CHART DIVISION

### **RECORD OF APPLICATION TO CHARTS**

FILE WITH DESCRIPTIVE REPORT OF SURVEY NO.

H-8313 Ad. Wk.

# INSTRUCTIONS

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart.

1. Letter all information.

2. In "Remarks" column cross out words that do not apply.

3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

	1		recommendations made under "Comparison with Charts" in the Review.
CHART	DATE	CARTOGRAPHER	REMARKS
236	3/10/64	G.R.MECANN	Part Before Verification Review Inspection Signed Via
			Drawing No. 31
1210	6-73-64	R.K. O. Lander	Full-Part Before After Verification Review Inspection Signed Via
		•	Drawing No. Convictor fully applied . Ryden
			removed from this areas on but 1200.
353	7-16-64	J.T. Gallaham	Feet Part Before Merification Review Inspection Signed Via
,		•	Drawing No. 1111 278# 236
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236	7-26-65	G. R.Mª CANN	Part Before Verification Review Inspection Signed Via
			Drawing No. thru Chart 278 in area covered by 278 mls
			my short 210 m dred covered by 218 ho
13223	6-20-80	N. Wylie	Full Tales After Verification Review Inspection Signed Via
		d	Drawing No. 47 COMP: 2 HR REVIEW: 1 HR
-,-		,	COMPLETIVE REVIEW ! FAX
13224	1-20-8	D. Wyhie	Full Partie After Verification Review Inspection Signed Via
	<b>V</b>		Drawing No. 35 36 COMP! 23 HR REVIEW: 41/2 HR
1.72			COMPLES TIC REVIEW. TIZTA
13221	6-23-80	D. wylie	Full Bar Patre After Verification Review Inspection Signed Via
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FORM C&GS-8352 SUPERSEDES ALL EDITIONS OF FORM C&GS-975.

USCOMM-DC 8558-P63 .