

8397

Diag. Cht. No. 1210-3.

Form 504

U. S. DEPARTMENT OF COMMERCE  
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Hydrographic

Field No. ECFP-1557 Office No. H-8397

LOCALITY

State Rhode Island

General locality Sakonnet River

Locality Brown Point to Tiverton

1957

CHIEF OF PARTY

M. T. Paulson

LIBRARY & ARCHIVES

DATE June 10, 1958

USCOMM-DC 5087

8397

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-8397

Field No. ECFP-1557

State Rhode Island

General locality Sakonnet River  
~~Narragansett Bay~~

Locality Brown Pt. to Tiverton  
~~Sakonnet River~~

Scale 1:10,000 Date of survey 9/17/57 - 10/18/57

Instructions dated 31 January 1956 - Supplemental instructions 15 Feb. 1957

Vessel East Coast Field Party

Chief of party Marvin T. Paulson

Surveyed by Jordon S. Baker

Soundings taken by ~~fathometer~~, graphic recorder, hand lead, ~~wire~~ sounding pole

Fathograms scaled by Party personnel

Fathograms checked by Jordon S. Baker

Protracted by Jordon S. Baker

Soundings penciled by Jordon S. Baker

Soundings in ~~fathoms~~ feet at MLW ~~MLW~~ and are true depths.

REMARKS:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

*Handwritten initials*

# DESCRIPTIVE REPORT

To Accompany

Hydrographic Survey H-8397

Field No. ECFP 1557

Narragansett Bay

Sakonnet River

Project 13870

1957

Scale 1:10,000

\* \* \* \* \*

## A. PROJECT

Instructions - Project 13870 - Rhode Island - Connecticut Coast, dated 31 January 1956 and addressed to Officer in Charge East Coast Field Party. Supplemental Instructions - Project 13870, dated 15 February 1957, addressed to Officer in Charge East Coast Field Party.

## B. SURVEY LIMITS

The area covered by this survey is in the vicinity of Sakonnet River. The limits are from latitude  $41^{\circ} -38.00'$  on the north, to  $41^{\circ} -30.50'$  on the south,  $71^{\circ} -10.00'$  on the east to  $71^{\circ} -16.50'$  on the west.

Hydrography on this sheet began 17 September 1957 and ended 18 October 1957.

This sheet forms a junction with Sheet H-8366 <sup>(1957)</sup> on the south, with Sheet H-8396 on the north, and is bounded by the coastline on the east and west. <sup>(1957)</sup>

Work proceeded in an orderly manner and progress was satisfactory as the weather in general was good.

## C. VESSEL AND EQUIPMENT

Launch CS-82 was used for the entire survey, with the exception of two days at which time Launch 168 was used. For this survey the launches were based at Tiverton, Massachusetts except for two days at which time CS-82 was based at Sakonnet Point. Launch CS-82 is a 30 ft. 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.

Due to the out-dated condition and the extreme noise of Launch CS-82, errors in relaying information to the recorder were common and the necessary corrections often resulted in a time consuming job. Also, because of its slow speed considerable time was wasted throughout the whole survey.

The following fathometers were used on Launch CS-82  
Type: EDO - 255 Serial No. 202 & ~~201~~

The following fathometer was used on Launch CS-168  
Type: EDO - 255 Serial No. 201

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

#### D. TIDE AND CURRENT STATIONS

*off sheet  
limits*

For the boat sheet a portable automatic tide station at Sakonnet Point, latitude  $41^{\circ}-27.89'$  longitude  $71^{\circ}-11.62'$  was used without any time corrections or range corrections. For the smooth sheet, a range correction 1:2 ratio on the H.W. was used on all soundings north of latitude  $41^{\circ}-33.45'$  for the same tide station in accordance with letter 36-416-15b dated 17 October 1957.

See TIDE NOTE appendix D.

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

#### E. SMOOTH SHEET

The projection was made in Washington, D.C. by mechanical means. The shoreline and signals were put on by the East Coast Field Party. The smooth sheet was plotted by the East Coast Field Party.

A slight discrepancy was found to exist in one area of the shoreline see section G. of this report.

It was necessary to relocate signals MOC and LAP. See section F of this report.

For signal INE, it is believed that the description given on the boat sheet and manuscript does not agree with the gable position furnished on the manuscript. This was proven by check angles on various D.P.'s. In as much as both gables were used throughout the survey, both points (signals) are shown. The gable as described on the boat sheet is shown as a hydro signal (blue) and the gable that was pricked by the photo party and also the most prominent gable is shown as a topo signal (red).

See section F of this report.

#### F. CONTROL STATIONS (see page 5 of this report)

#### G. SHORELINE AND TOPOGRAPHY

The shoreline and topographic detail shown on the boat sheet were transferred from manuscripts prepared from photographs by the Photo Party. *P2 Review*

In some areas the low waterline was not completely defined due to steep sloping and rocky shoreline. A slight discrepancy was found in the shoreline on the east side of the Sakonnet River at latitude  $41^{\circ}-35.90'$  longitude  $71^{\circ}-12.50'$ . It appears that the shoreline has moved in a northerly direction increasing the water area. *See P4B2 Review*

The final shoreline and topography was obtained from photogrammetric manuscripts.

#### 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 or those taken in depths too shoal for the fathometer.

#### H. SOUNDINGS (CONT'D)

Soundings shown on the boat sheet did not have velocity corrections applied and in some cases may be in error in amounts greater than one foot.

Many strays were picked up with the EDO fathometer. All strays were investigated further in an attempt to verify or disprove the sounding. It's apparent that most strays were caused by fish or from the turbulence caused by the velocity of the current. For the most part it was the fathometer itself.

#### I. CONTROL OF HYDROGRAPHY

All hydrographic control was usually by sextant angles on shore objects. Positions were usually taken at one and one half minute intervals.

#### J. ADEQUACY OF SURVEY

This survey is complete within the limits defined and adequate to supersede all prior surveys for charting purposes. Junctions with adjoining surveys appear to be in good agreement. (See TP 5 Review)

#### K. CROSSLINES

About 18 nautical miles of sounding lines were crosslines or about 8.2% of the total nautical miles of hydrography.

On the boat sheet, discrepancies of 2 to 3 feet were noted on the southern portion of the sheet. However in all other areas agreement was satisfactory. All discrepancies were resolved when smooth plotted.  
*17-2 ft. crossing diff. were resolved during verification*

#### L. COMPARISONS WITH PRIOR SURVEYS

This survey was compared with prior surveys H-3396 1:10,000 1917 and Survey H-3395, 1:10,000 1917. It is believed that all known shoals were proved. In general slightly lesser depths and/or slightly different location were found. (See TP 6C Review)

#### M. COMPARISON WITH CHART

A comparison with Chart No. 353, 18th edition, May 1952, revised August 1956, shows the following differences as listed in Section N of this report. (See TP 7 Review)

#### N. DANGERS & SHOALS

See "Advance Report of Dangers to be Charted" which was submitted for Sakonnet River 28 October 1957. *f 825(57)*

#### O. COAST PILOT INFORMATION

For information concerning the horizontal and navigational clearances between abutments of the former "Old Stone Bridge", latitude  $41^{\circ}-37.55'$  longitude  $71^{\circ}-13.05'$ , see descriptive report of sheet H-8396. (1957)

O. COAST PILOT INFORMATION ( CONT'D)

Horizontal, vertical and navigational clearances for small road bridge being erected at latitude 41°-37.06' longitude 71°-12.45' at the entrance to Nannaquacket Pond was not available at the time of this report.

P. AIDS TO NAVIGATION

The following is a list of all floating aids to Navigation:

<u>NAME</u>	<u>IAT. &amp; LONG.</u>	<u>DEPTH</u>	<u>POSIT</u>	<u>DATE LOCATED</u>
Can #11	41°-36.94' 71°-13.33'	38½'	Vol. 13 p.6 9s	10/11/57
Nun #12	41°-36.21' 71°-13.02'	18'	Vol. 2 p.28 8c	9/19/57
Can #9	41°-35.95' 71°-13.22'	16½'	Vol. 2 p.28 9c	9/19/57
Nun #10	41°-35.71' 71°-13.07'	17½'	Vol. 2 p.29 10c	9/19/57
Can #7	41°-34.66' 71°-13.38'	23'	Vol. 2 p.29 11c	9/19/57
Nun #8	41°-34.65' 71°-13.20'	28'	Vol. 2 p.30 12c	9/19/57
Nannaquacket Pond Buoy	41°-37.17' 71°-12.69'	10'	Vol. 13 p.61 118t	10/14/57
Nun #6	41°-33.16' 71°-14.25'	22'	Vol. 9, 10 1461, 26n	10/1/57 10/3/57
Can #5	41°-32.67' 71°-14.42'	22'	Vol. 7 40j	9/27/57

Q. LANDMARKS FOR CHARTS

There are no new landmarks to report.

R. GEOGRAPHICAL NAMES

There was no new geographical names to report.

S. SILTED AREAS

There are no silted areas to report.

F. CONTROL STATIONS

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

<u>STATION</u>	<u>G.P. PAGE</u>	<u>VOL. NO.</u>	<u>CH. OF PTY.</u>
BILT-Vanderbilt's Barn, south gable, 1917	102	1	
BLAC-Black Point, 1917	99	1	
BOLD-Boulder on shore, 1917	101	1	
CHAS-Chase Estate, gray tower, 1917	103	1	
*COMP-Little Compton Cong. Church Spire, 1843	56	1	
HILL-High Hill	102	1	
LADE-Slade Farm Flag, 1917	102	1	
PIRE-Baptist Church Spire, 1917	103	1	
PORT-Portsmouth Belfry, 1869	145	1	
VAND-Vanderbilt's Estate, gray tower, 1917	102	1	
YELL-Churches Estate, yellow tower, 1917	103	1	

\*Not used

All topographic control was located on photogrammetric manuscripts T-11428 and T-11430 <sup>of 1954-56</sup> using standard photogrammetric methods. This control was supplied by the photo party located at Newport, Rhode Island.

It was found that signal MOC and LAP had been relocated and it was necessary to take cuts to these signals. This was done on 9/19/57. It is believed that signal lap was destroyed by the recent hurricane and a new building was erected near-by to its original location. For most of the survey the wrong gable of the house which was called INE was used. It is believed that the wrong gable was pricked by the photogrammetrist for the description given.

See Appendix A for a list of control stations and the origin of each.

*see special map 56/137*  
*see app B H-8396 DR*

Respectfully submitted,

*Jordan S. Baker*  
Jordan S. Baker  
ENS., USC&GS

Approved and forwarded,

*Robert C. Darling*  
Robert C. Darling  
LCDR., USC&GS  
Chief of Party

APPENDIX A  
 CONTROL STATIONS  
 To Accompany Hydrographic Sheet H-8397

<u>STATION</u>	<u>ORIGIN</u>
AHA	T-11428
BAM	T-11428
BAB	T-11428
BILT-Vanderbilt's Barn, south gable, 1917	
BLAC-Black Point, 1917	
BOLD-Boulder on Shore, 1917	
CHAS-Chase Estate, gray tower, 1917	
COMP-Little Compton Cong. Church Spire, 1843	
COT	T-11430
CAP	T-11430
CAR	T-11428
DEN	T-11428
DOT	T-11428
EIF	T-11428
ETT	T-11428
FED	T-11430
FIT	T-11428
FLO	T-11428
GOB	T-11428
GEO	T-11428
GAT	T-11428
HAG	T-11428
HIC	T-11428
HILL-High Hill	
INE	T-11430
INN	T-11428
JOC	T-11430
JIP	T-11428
KIL	T-11428
LADE-Slade Farm Flag, 1917	
LAP	T-11428
LAB	T-11428
MAT	T-11428
MOC	T-11428
NAB	T-11428
OAR	T-11430
OPP	T-11428
PAT	T-11430
PED	T-11430
PIG	T-11430
PIM	T-11430
PIRE-Baptist Church Spire, 1917	
PORT-Portsmouth Belfry, 1869	
REB	T-11428
RIO	T-11428
SAP	T-11428
SEX	T-11430
SIL	T-11430
TAG	T-11428
URN	T-11428
VAND-Vanderbilt's Estate, gray tower, 1917	
WIC	T-11428
WOG	T-11430
YELL-Churches Estate, yellow tower, 1917	
ZIP	T-11428



bar cks  
 9-17-a day - Edo # 202 - No B.C. - No mention of converter used.  
 9-18-b day - Edo # 202 - bar ck - 1' deeper than tab. at 46' - no mention of converter used.  
 9-20-d day - Edo # 202 -

APPENDIX B

ABSTRACT OF VELOCITY CORRECTIONS

Hydrographic Survey H-8397 (ECFP-1557)

EDO FATHOMETER NO. 202

9/17 - 10/14  
10/17 - 10/8

0.0	0.0
22.0	<del>0.0</del>
28.0	<del>0.2</del>
33.0	<del>0.4</del>
38.0	<del>0.6</del>
44.0	<del>0.8</del>
50.0	<del>1.0</del>
56.0	<del>1.2</del>
60.0	<del>1.4</del>
Deeper	<del>1.6</del>

EDO FATHOMETER NO. 201

<sup>a day</sup> 10/10 & <sup>b day</sup> 10/15  
 Launch # 168

0.0	0.0
47.0	<del>0.0</del>
55.0	<del>0.2</del>
63.0	<del>0.4</del>
66.0	<del>0.6</del>
Deeper	<del>0.8</del>

No bar cks on  
 10/10 or 10/15  
 to substantiate  
 these corr.

NOTE: For further information regarding velocity corrections see fathometer report - Project 13870

see D/R H-8394

APPENDIX C  
STATISTICS  
To Accompany

Hydrographic Survey H-8397 (ECFP-1557)

DAY 1957	VOL. NO.	DAY LTR.	PCS. FATH.	PCS. D.P.	STAT. MI. SDG. LINE
Launch CS-82					
17 Sept.	1	a	98	0	10.6
18 "	1,2	b	161	0	19.9
19 "	3	c	93	5	12.0
20 "	3	d	150	0	19.0
23 "	4	e	151	0	22.3
24 "	5	f	184	4	23.0
25 "	6	g	41	2	05.5
26 "	7	h	112	0	15.1
27 "	7	j	107	0	10.7
30 "	8	k	186	3	24.2
1 Oct.	9	l	174	0	24.7
2 "	10	m	85	0	13.2
3 "	10,11	n	138	0	19.2
4 "	11	p	137	5	16.1
9 "	11,12	q	142	1	16.1
10 "	12	r	122	3	18.4
11 "	13	s	59	25	05.2
14 "	13	t	140	9	15.4
17 "	16	u	84	2	07.2
18 "	16	v	60	8	08.5
TOTALS			2424	67	306.3

CS-168

10 Oct.	14	a	35	2	02.7
15 Oct.	15	b	164	8	13.7
TOTALS			199	10	16.4

APPENDIX D  
TIDAL NOTE

To Accompany  
Hydrographic Survey H-8397 (ECFP-1557)

Project-13870

All tidal data for reducing soundings was obtained from a portable tide gage at Sakonnet Point, Sakonnet, Rhode Island.

LOCATION OF GAGE:

Latitude  $41^{\circ}-27.89'$   
Longitude  $71^{\circ}-11.62'$

*OFF LIMITS OF  
THIS SURVEY*

STAFF:

Mean low water corresponds to 3.1 ft.  
on the staff

CORRECTION:

1. South latitude  $41^{\circ}-33.45'$   
Height ratio None  
Time Corr. None

*SOUTH RANGE 3.1  
NORTH RANGE 3.7*

2. North latitude  $41^{\circ}-33.45'$   
Height ratio 1.2  
Time Corr. None

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

36-315-15b.2 dated 15 August 1957  
36-416-15b dated 17 October 1957

APPENDIX E

APPROVAL SHEET

To Accompany

Hydrographic Survey H-8397 (ECFP-1557)  
Project 13870

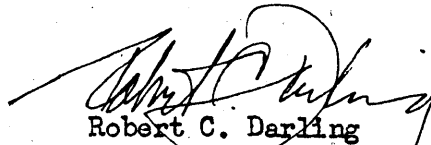
The record corrections, fathogram scanning and all field work were supervised by Marvin T. Paulson.

The fathograms were scanned prior to plotting the soundings on the boat sheet and no further scanning is necessary.

*much check scanning  
of strays by verifier*

The smooth sheet and descriptive report were made under the supervision of Robert C. Darling.

The survey and processing is hereby approved.



Robert C. Darling  
O-in-C, East Coast Field Party

✓

GEOGRAPHIC NAMES

Survey No. H-8397

Name on Survey	Source									
	A	B	C	D	E	F	G	H	K	
	On Chart No.	On previous survey No.	On U. S. quadrangle Maps	From local information	On local Maps	P. O. Guide or Map	Rand McNally Atlas	U. S. Light List		
Rhode Island			(for title)						BGN	1
Narrangansett Bay				"						2
Sakonnet River				"					BGN	3
Aquidneck Island										4
Black Point										5
Fogland Point										6
McCurry Point										7
Sapowet Cove										8
Gould Island										9
Nannaquaket Pond										10
Tiverton										11
										12
										13
Tide station off sheet										13
Sakonnet Point									BGN	14
										15
Nannaquaket Neck										16
Sapowet Pt.										17
Sandy Pt.										18
High Hill Pt.										19
Brown Pt										20
Nonquit Pond										21
										22
										23
										24
										25
										26
										27
										27

Names approved 7-3-58  
W. Heck

OFFICE OF CARTOGRAPHY

REVIEW SECTION -- NAUTICAL CHART DIVISION

REVIEW OF HYDROGRAPHIC SURVEY

REGISTRY NO. H-8397

FIELD NO. ECFP 1557

Rhode Island, Sakonnet River, Brown Pt. to Tiverton

SURVEYED: Sept. - Oct. 1957

SCALE: 1:10,000

PROJECT NO. 13870

SOUNDINGS: Edo Depth Recorders  
Leadline

CONTROL: Sextant fixes  
on shore signals

Chief of Party ----- M. T. Paulson  
Surveyed by ----- J. S. Baker  
Protracted by ----- J. S. Baker  
Soundings plotted by ----- J. S. Baker  
Verified and inked by ----- F. P. Saulsbury  
Reviewed by ----- I. M. Zeskind  
Inspected by ----- R. H. Carstens

DATE: 8-10-61

1. Description of the Area

This ~~is~~<sup>is</sup> a survey of the northern part of Sakonnet River between Brown Point and Tiverton. The bottom relief is fairly irregular and is characterized by shoals, deeps and flats. Depths in the natural channel range from 6 to 66 ft. Much of the area alongshore abounds with rocks awash and sunken rocks.

2. Control and Shoreline

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

The shoreline originates with unreviewed photogrammetric survey T-10491 (1956) and reviewed photogrammetric surveys T-11428 and T-11430 of 1954-56.

3. Hydrography

Depths at crossings are in good agreement. The usual depth curves were adequately delineated, except close inshore where the foul character of the bottom and steep-to shore sometimes prevented the development to the low-water line. The least depths and the bottom configuration on the shoals were adequately developed.

4. Condition of Survey

- a. The Descriptive Report is complete and comprehensive.
- b. The smooth plotting was accurately done except as follows:
  1. Numerous soundings on b day (blue) had been smooth plotted with values not in agreement with recorded values. Faulty bar check corrections and inadequate application of tide reducers were also found on this day. These inaccuracies were rectified in the sounding volumes and on the smooth sheet by the verifier, thereby bringing the depths on b day (blue) into agreement with adjacent hydrography.
  2. It was necessary to change about 25% of the shoreline transferred from T-11430 and T-11428 of 1954-56 and all of the shoreline from T-10491 (1956) during verification of the smooth sheet because of either the inaccurate transfer or the poor drafting of the shoreline.
  3. Because of the extreme sensitivity of the Edo depth recorders used on the survey, numerous spurious traces were recorded and required evaluation during verification. Many strays had been recorded in the sounding volumes but were/<sup>not</sup> properly identified or disposed of.
  4. Bar check corrections applied to the soundings on two days were not in accord with the abstract of corrections in the Descriptive Report. The corrections to many other soundings were revised by the verifier to agree with a redetermination from available bar-check comparisons.

5. Junctions

An adequate junction was effected with H-8366 (1957) on the south. The junction with H-8396 (1957) on the north will be considered in the review of that survey.

6. Comparison with Prior Surveys

A. Misc. 20 (1832) 1:24,000  
(U.S.N. Chart)

The few soundings on this small-scale reconnaissance chart affords no adequate basis for a comparison with the present survey.

B. H-205 (1848) 1:10,000  
H-205bis (1903) 1:20,000  
H-792a (1861) 1:20,000

These reconnaissance surveys together cover the area of the present survey. A comparison between the prior and present surveys reveals that the bottom in general has shoaled from 2-5 ft. However, in several areas mainly in the natural channel greater differences are noted, as for example, in lat.  $41^{\circ}34.90'$ , long.  $71^{\circ}13.20'$ , where a prior depth of 59 ft. falls in present depths of 39 ft. This shoaling of the bottom is attributed to natural causes.

A rock awash has been carried forward from H-205bis to the present survey. With the addition of this feature the present survey is adequate to supersede the prior surveys within the common area.

C. H-3995 (1917) 1:10,000  
H-3996 (1917) 1:10,000

These surveys together cover the area of the present survey. A comparison between the prior and present surveys reveals the present depths generally to be 2-5 ft. shoaler. In a few areas greater shoaling is noted, as for example, in lat.  $41^{\circ}35.05'$ , long.  $71^{\circ}13.25'$ , where a prior depth of 49 ft. falls in present depths of 37-38 ft. This shoaling of the bottom is attributed to natural causes. Attention is specifically directed to the following discrepancies between the prior and present surveys:



1. The rock awash charted in lat.  $41^{\circ}30.77'$ , long.  $71^{\circ}14.07'$ , originates with the symbolization of a rocky ledge approximately located on H-3995 (1917). This rock awash which falls in depths of 9 ft. on the present survey is considered discredited. The feature should actually fall about 70 meters south-southwestward where a ledge is located on the present survey. The rock awash should be deleted from the chart.

2. The 20-ft. sounding charted in lat.  $41^{\circ}30.62'$ , long.  $71^{\circ}12.66'$ , from H-3995 (1917), falls in present depths of 25 ft. The prior sounding is considered to be 1-fm. in error and should actually be 26 ft. The 20-ft. sounding should be deleted from the chart.

Four soundings and two rocks awash have been carried forward from the prior survey to the present survey. With these additions the present survey is adequate to supersede the prior surveys within the common area.

7. Comparison with Chart 353 (Latest print date 4-10-61)

A. Hydrography

The charted hydrography originates with the previously discussed prior surveys which need no further consideration, with chart letter 564 (1949), with photogrammetric survey T-5601 (1934) and with supplementary critical data applied from the present boat sheet (Bp-55932) and the smooth sheet prior to verification. In general there are only minor differences of 2-3 ft. between the charted and present survey depths, except in several areas where differences as great as 6 ft. are noted. The following differences between the charted and present survey data are specifically discussed:

1. The 5-ft. sounding which is the least depth on a shoal in lat.  $41^{\circ}34.89'$ , long.  $71^{\circ}14.12'$ , on the present survey, has not been charted. The shoal which rises from 10-11 ft. should be charted.

2. The rock awash charted in lat.  $41^{\circ}31.30'$ , long.  $71^{\circ}12.41'$ , from the boat sheet (Bp 55932) of the present survey was revised to "3Rk" during verification of the present survey.

3. The 5-ft. sounding charted in lat.  $41^{\circ}36.68'$ , long.  $71^{\circ}13.77'$ , from the boat sheet (Bp 55932) of the present survey was revised to 7 ft. during verification of the smooth sheet.

4. The islet charted in lat.  $41^{\circ}32.45'$ , long.  $71^{\circ}12.51'$  from photogrammetric survey T-5601 (1934-36) falls in present depths of 12-14 ft. A close development of the area during the present survey failed to reveal the existence of this islet. The islet should be deleted from the chart.

5. The 20-ft. and 18-ft. soundings charted in lat.  $41^{\circ}32.75'$ , long.  $71^{\circ}13.35'$  and lat.  $41^{\circ}32.21'$ , long.  $71^{\circ}13.21'$ , respectively, originate with a single line of soundings in Sakonnet River obtained by a Coast Pilot inspection party and are shown on a section of chart 353 attached to chart letter 564 (1949). The charted soundings falling in depths on the present survey which are 4-5 ft. deeper are considered displaced in position. The charted soundings in each instance should fall about 300 meters westward where comparable depths are found on the present survey. The soundings should be deleted from the chart.

6. The 9 ft. charted in lat.  $41^{\circ}35.92'$ , long.  $71^{\circ}12.86'$  from the boat sheet of the present survey (Bp 55932) was rejected during verification of the survey and should be disregarded.

Four soundings and 2 rocks awash have been carried forward from the prior to the present survey. With these additions the present survey is adequate to supersede the charted information.

B. Aids to Navigation

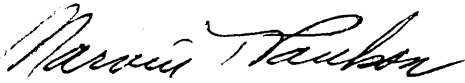
The present survey positions of aids to navigation are in substantial agreement with the charted aids and adequately mark the features intended.

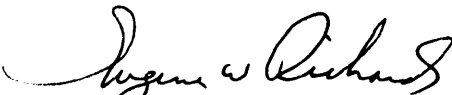
8. Compliance with the Project Instructions

The survey adequately complies with the project instructions.


9. Field Work Recommended

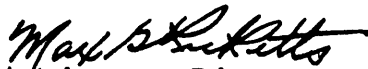
This survey is considered to be a good basic survey and no additional field work is recommended.

  
Chief,  
Nautical Chart Division

  
Projects Officer,  
Operations Division

Examined and Approved:

  
Assistant Director,  
Office of Cartography

  
Assistant Director,  
Office of Oceanography

Hydrographic Surveys (Chart Division)

HYDROGRAPHIC SURVEY NO. ..8397..

Records accompanying survey:

Boat sheets 1...; sounding vols. 17...; wire drag vols. ....; bomb vols. ....; graphic recorder rolls 11 Envelopes special reports, etc. 1 Smooth sheet, and 1 Descriptive report, ..  
 .....

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	.....	2700
Number of positions checked	.....	165
Number of positions revised	.....	56
Number of soundings revised (refers to depth only)	.....	approx 850*
Number of soundings erroneously spaced	.....	9
Number of signals erroneously plotted or transferred	.....	0
Topographic details	Time	40
Junctions	Time	16
Verification of soundings from graphic record	Time	** 40

Verification by F.P. SAULSBURY Total time 401 Date 7-17-61

Reviewed by [Signature] Time 67 Date 8-10-61

\* THE MAJORITY OF THESE REVISIONS WERE THE RESULT OF BAR CK. & TIDEZONE CORRECTIONS. APPROX. 450 Sdg's. were subject to both corrections.

\*\* Approx. 170 INTERMEDIATE Shoal or deep sdg's. were added to S.S. APPROX. 195 "STRAYS" were rejected during verification. APPROX. 30 Zero or Minus sdgs. were revised on the S.S. to rocks awash with elevation 'at M.L.W.

TIDE NOTE FOR HYDROGRAPHIC SHEET

Chart Division: R. H. Carstens:

11 July 1958

Plane of reference approved in  
16 volumes of sounding records for

HYDROGRAPHIC SHEET 8397

Locality Narragansett Bay, R.I.

Chief of Party: M. T. Paulson in 1957

Plane of reference is mean low water, reading

3.1 ft. on tide staff at Sakonnet Point

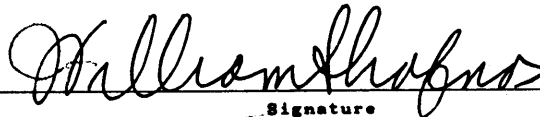
8.4 ft. below B.M. 1 (1957)

Height of mean high water above plan of reference is as follows:

3.1 feet south of Lat.  $41^{\circ} 33'.5$

3.7 feet north of Lat.  $41^{\circ} 33'.5$

Condition of records satisfactory except as noted below:

  
Signature

Chief, Tides Branch

KAC

TIDE NOTE FOR HYDROGRAPHIC SHEET

April 23, 1963

Nautical Chart Division: R. H. Carstens

Plane of reference approved in  
1 volumes of sounding records for

HYDROGRAPHIC SHEET 8397 *Adl. wk*

Locality Narragansett Bay, R. I.

Chief of Party: K. A. McDonald 1962

Plane of reference is mean low water

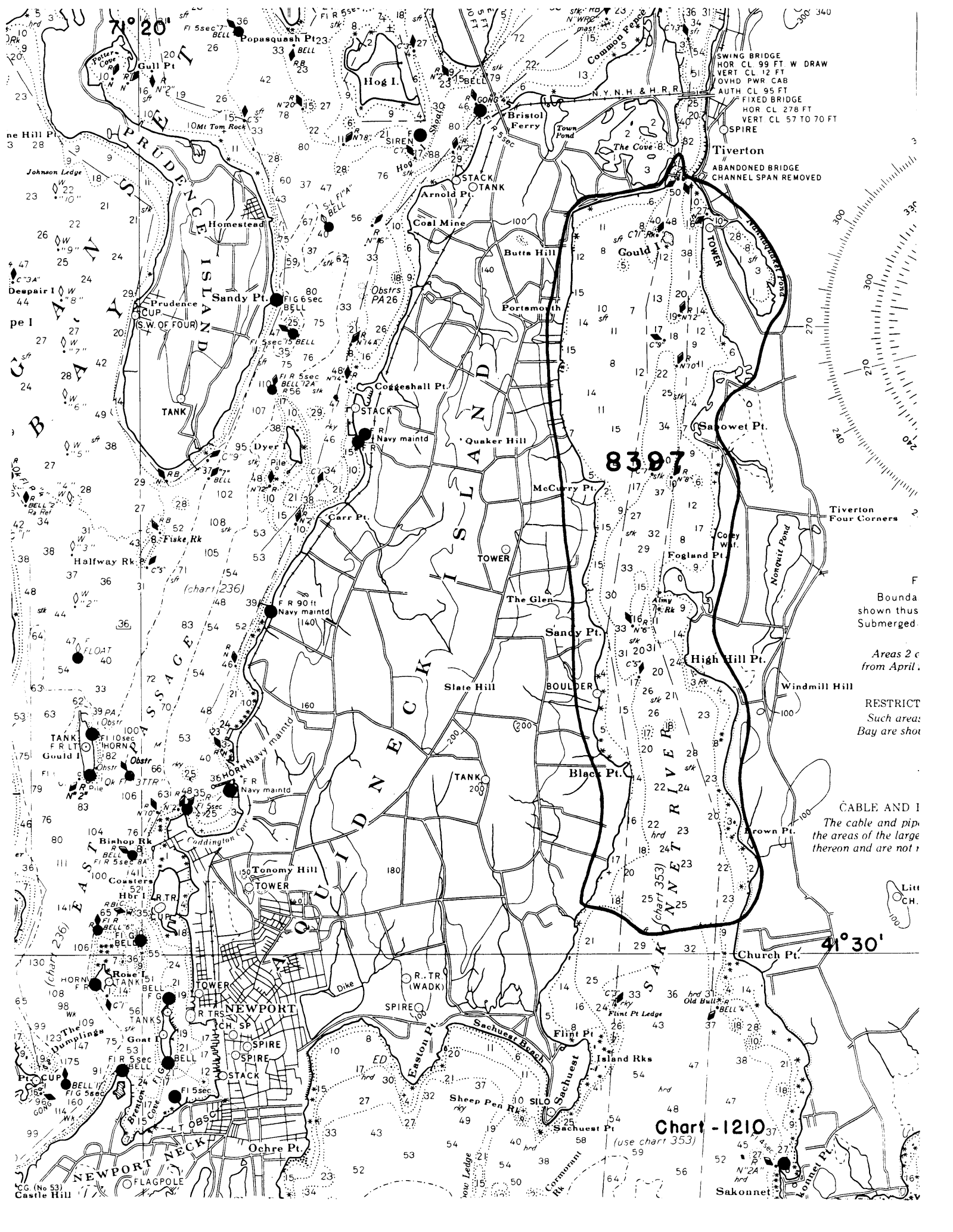
ft. on tide staff at

ft. below B. M.

Height of mean high water above plane of reference at the  
working grounds is 3.5.

Condition of records satisfactory except as noted below:

*J. M. Simmons*  
\_\_\_\_\_  
Chief, Tides and Currents Branch



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8397

Chart - 1210  
(use chart 353)

41°30'

CG (No 53)  
Castle Hill

Litt  
CH.

