### 11434

Diag. Cht. No. 1210-2.

U. S. DEPARTMENT OF COMMERCE COAST AND GEODETIC SURVEY

### DESCRIPTIVE REPORT

Type of Survey Shoreline

Field No. Ph-142 Office No. T-11434

### **LOCALITY**

State Rhode Island

General locality Rhode Island Sound

Locality Stony Point to Sachuest Point

### 1954-56

### CHIEF OF PARTY

L.F.Woodcock, Chief of Party W.F.Deane,Balto. District Office

### LIBRARY & ARCHIVES

DATE April 1962

USCOMM-DC 5087

### T-11434

Project No. (II): Ph-142

Quadrangle Name (IV):

Field Office (II): New Bedford, Mass.

Chief of Party: L. F. Woodcock

Photogrammetric Office (ill): Baltimore, Maryland

Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 18 August 1954

8 June 1954 &

15 Sept. 1955.

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:4,000: 1:6,000

(Pantograph ratio 2/5; 3/5)

Scale Factor (III):

1.000

Date received in Washington Office (IV): 🐧 🎉

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV): 30 Aug 1960

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): NA 1927

MHW Vertical Datum (III):

Wear seaters except as follows:

Elevations shown as (25) refer to mean high water Elevations shown as (5) refer to sounding datum i.e., mean low water or mean lower low water

Reference Station (III):

SAKONNET, 1932

Lat.: 41° 27' 37.129" (1145.4 m) Long.: 71° 11' 22.621" (525.0 m)

Adiusted **TEMPONENCE** 

Plane Coordinates (IV):

State: Rhode Island

Zone:

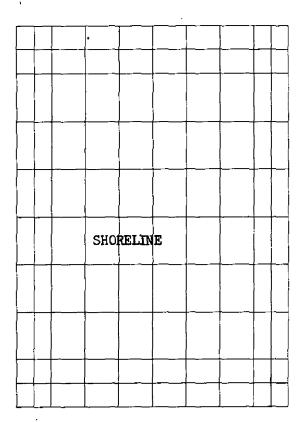
Y=

Roman numerals indicate whether the item is to be entered by (II) Field Party, (III) Photogrammetric Office, or (IV) Washington Office.

When entering names of personnel on this record give the surname and initials, not initials only.

Form T- Page 1

M-2618-12(4)



Areas contoured by various personnel (Show name within area)
(II) (III)

### DATA RECORD

Field inspection by (II): M. A. Stewart I. Y. Fitzgerald	July 1954  July 1954
W. M. Reynolds	June-July 1954
Planetable contouring by (II):	Date:
Completion Surveys by (II):	Date:
Mean High Water Location (III) (State date and method of location):  1 May 1956, Photogrammetric (Kelsh)	
Projection and Grids ruled by (IV): Austin Riley	Date: 10/8/54
Projection and Grids checked by (IV): Austin Riley	Date: 10/8/54
Control plotted by (III): J. B. McDonald	Date: 7/27/55
Control checked by (III): M. Keller	Date: <b>7/27/55</b>
Radial Plot or Stereoscopic Control extension by (III):	Date:
Stereoscopic Instrument compilation (III):  Planimetry  J. C. Cregan  E. L. Rolle  Contours	Date: 9/25/57
Manuscript delineated by (III): J. H. Glassner (Scribing)	Date: 6/1/59
Photogrammetric Office Review by (III): J. D. McEvoy	Date: 10/2/57
Elevations on Manuscript checked by (II) (III):	Date:

Form T-Page 3

M-2618-12(4)

### Camera (kind or source) (iii): C&GS Type "W", 6" focal length, and nine-lens.

		PHOTOGRAPHS (III)				
Number	Date	Time <b>E.S.T.</b>	Scale	S	tage of 1	ſide
54-W-938 thru 940	4/22/54	11:12	1:20,000	2.31	above	MIM
5h-w-1160 thru 1162		13:32	Ħ	0.71	87	17
54-W-1175 thru 1177	Ħ	13:42	Ħ	0.61	Ħ	ff .
54-W-1184 thru 1186	19	13:55	Ħ	0.51	Ħ	17
56-W-425 thru 426	5/1/56	12:20	1:30,000	2.41	Ħ	ti
269 thru 270	tt	09:50	Ħ	1.91	11	Ħ
43649 thru 43651	•	•	1:10,000	MIW		

### Tide (III) (From Predicted Tables)

Reference Station:

Newport, R. I.

Subordinate Station:

Sakonnet

Subordinate Station:

Washington Office Review by (IV):

washington office neview by (14).

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III):

Shoreline (More than 200 meters to apposite shore) (III): 17

Shoreline (Less than 200 meters to opposite shore) (III):

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 15

Number of BMs searched for (II):

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III): None.

Date:

Ratio of

Ranges

0.9

Mean |

Range

<u>3.5</u>

Spring

Range

Date:

Date:

Recovered: 11 Ident

Recovered:

Identified: 11
Identified:

Remarks:

PH-142

### AREAL FIELD INSPECTION

This survey lies astride the mouth of the Sakonnet River. It covers the land area of Sakonnet and Sachuest Points.

For a description of the area see Field Inspection Report for T-11430.

Field inspection is believed to be adequate and complete.

Photography was of good quality, of a recent date, and presented no difficulty in photographic interpretation.

Field inspection was performed on 1:10,000 scale ratio prints of single lens photographs 54-W-939 and 54-W-940, 54-W-1175 through 54-W-1177, 54-W-1182 through 54-W-1186, and 1:10,000 scale prints of ninelens photographs 43649 through 43651.

### 3. HORIZONTAL CONTROL

All horizontal control searched for and identified was established by the Coast and Geodetic Survey.

No supplemental control was established.

Descriptions of seventeen Bureau stations established in 1943 were not available to the field party. However, these stations were closely grouped in two separate areas with recovery and identification being made of previously established stations adjacent to each of the groups of 1943 stations.

The following stations were reported lost: SACHUEST NECK, CHIMNEY ON SHACK 1917; NORTH SILO 1917; NORTH GABLE, SOUTH END OF LONG SHACK 1917; SACHUEST POINT TOWER 1943; GOLF CLUB FLAG POLE 1917; DR. GARDNERS HOUSE, CHIMNEY 1917; MILL 1934; SIMMONS 1843; and SIMMONS 2(RI) 1870.

### 4. VERTICAL CONTROL

There are no tidal bench marks in the area.

### 5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage is adequately covered by the photographs.

### SUMMARY PROJECT PH 122 TWENTY-FOUR

This project consists of 3 3/4' X 7%', 1:10,000 scale shoreline maps. Three manuscripts T-ll44, T-ll448 and T-ll449 were compiled by the Tampa District Office. The remainder were compiled by the Baltimore District Office.

The objective of the project was to provide shoreline and horizontal control data for contemporary hydrographic surveys and base maps for nautical charts.

It extends from the New Bedford, Connecticut area west to Old Saybrook along Block Island Sound and includes parts of Massachusetts, Rhode Island, and Connecticut.

Aerial photography was taken in the spring of 1954 with the "W" camera at 1:20,000 scale and supplemental nine-lens at 1:10,000 at low water. Some additional photography was flown in May 1956 for revision purposes.

Control was extended by stereoplanigraph and multiplex methods. Compilation was accomplished by Kelsh.

More stations were identified than necessary for this project. This was due to the fact that the original intentions were to extend horizontal control by radial line plot methods. Subsequent purchase of an additional first order bridging instrument reduced the need for the density of control. This item is the subject of supplemental instructions dated 15 September 1955, Paragraph 5. The field phase of control identification was initiated in June 1954.

The project is classified as Shoreline yet instructions to the field dated 8 June 1954, Paragraph 9 "Interior Inspection" states "the inland limits of inspection and delineation are the map limits".

Five contemporary hydrographic surveys dated 1956-57 have been completed in this area by visual hydrographic methods.

All sheets were scribed and transmitted to the Washington Office by

Final Review was completed by April 1960.

Submitted by:

A. K. Heywood

### 6. WOODLAND COVER

Adequately covered by the photographs.

### 7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was easily identified. It has been indicated by symbol on the photographs.

The area was visited and the low water line inspected at the time of two low waters. The approximate mean low water line has been indicated by symbol.

The foreshore is predominantly narrow and rocky. There are a few short stretches of steep sandy beaches chiefly across truncated bays. The foreshore along these sand beaches is relatively narrow and, of course, is sand.

All other shoreline features are adequately covered by the photographs.

### 8. OFFSHORE FEATURES

There are a number of rocks off Sakonnet Point. Most of these rocks are of a large size and will carry a mean high water line. The mean low water line in most instances will be synonymous with the mean high water line due to the steep slopes. Heights above water of these rocks were not determined because of rough water and small open skiffs.

There are no other offshore features.

### 9. LANDMARKS AND AIDS

One landmark, SILO, was recommended for charting. Form 567 was submitted.

Two aids to navigation exists. They are adequately covered by the photographs and Form 567.

### 10. BOUNDARIES, MONUMENTS AND LINES DICA

There are none.

### 11. OTHER CONTROL

\*Photo-hydro stations were selected and identified.

### 12. OTHER INTERIOR FEATURES

\* SUPPLEMENTAL INSTRUCTIONS
AMERICA OF OFFICE AND INSTRUCTIONS

Adequately covered by the photographs.

### 13. GEOGRAPHIC NAMES

See "Special Report, Geographic Names, Project Ph-142."

### 14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Special Report, Geographic Names, Project Ph-142, to be forwarded at a later date.

Letter of Transmittal No. Ph-142-3, Form 567, Fixed Aids to Navigation, to be forwarded at a later date.

Letter of Transmittal No. Ph-142-4, Form 567, Landmarks for Charts, to be forwarded at a later date.

Letter of Transmittal No. Ph-142-5, Data, T-11434, forwarded to the Washington Office AUG 6 1954

Submitted 6 August 1954

Matthe a. A tenor M. A. Stewart Carto. Survey Aid

Approved & Forwarded

AUG 6 1954

Lorin F. Woodcock Chief of Party of 2 sheets

STATION SOURCE OF INFORMATION (INDEX)						
(INDEX)	F DATUM	LATITUDE OR V-COORDINATE	DISTÂNCE FROM GRID IN FEET.	C. DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OF PROJECTION LINE	FACTOR DISTANCE FROM GRID OR PROJECTION LINE
	NA		FORWARD (BACK)			
The form come	too!	797°91 62 17	507.9 1343.1	1851.0	Pricked direct	
1934 502/4	1361	71 08 45,421	1053.7 338.2	1391.9		
Big Rock 1/56		41 28 25,800	795.9 1055.1	1851.0		
	1927	71 09 20,053	465.3 926.9	1392.2		
SS Big Rock	' <b>:</b>	41 28		1851.0	٨	
1934	:			1392.2		
•					Pricked direct	
1954 terd	8					
Cheathan's House 1/99	,	41 29 47.857	1476.4 374.6	1851.0	Pricked direct	
1917	2	71 11 49.483	1147.8 243.9	1391.7		
Cor 2 1932		41 27 36.463	1124.9 726.1	1851.0	Pricked direct	
	2	71 14 53.528	1242.3 150.2	1392.5		
1/55		41 27 04,118	127.0 1724.0	1851.0		
ERST NOCK, 1043 502/1	5	71 11 38,448	892.5 500.2	1392.7		
SS East Rock		41.27	113.1 1737.9	1851.0		
1843	-	71 11	868.4 524.3	1392.7		
1/90		41 28 29.045	896.0 955.0	1851.0	Pricked direct	
		71 14 45.383	1053.0 339.2	1392.2		- 10
97/1 0/01 (18E) 4049		41 28 29.593	913.0 938.0	1851.0		-
	=	71 10 32,135	745.6 646.6	1392.2		
SS Rich (USE) Reject	- Field	Data inconsistent		1851.0		
1940				1392.2		

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Sakcomet, 1932 1/3	STATION	SOURCE OF INFORMATION (INDEX)	DATUM N A	LATITUDE OR V-COORDINATE LONGITUDE OR x-COORDINATE	DISTANCE FROM OR PROJECTION FORWARD	( GRID IN FEET, LINE IN METERS (BACK)	DATUM	N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)	FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS FORWARD (BACK)
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SS Sakonnet, 1932 Sakonnet, 1932 Sakonnet Harbor 1/56 1927 1111 1112 1105.6685 1104.7 1112 1105.6685 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.5 1104.6 1104.5 1104.5 1104.5 1104.6 1104.5 1104.6	Sakomet, 1954	502/1-1;	2 1927	71 11 22,621	525.0	867.5	1392.5		
SS Sakomnet, 1932 Sakomnet, 1934 Sakomnet Harbor 1/56 14 27 56.685 11743.7 102.3 1851.0 Priched direct 12 12 12 10.887 1102.5 287.9 1392.4 12 12 10.666 12 12 12 12 12 12 12 12 12 12 12 12 12 1				72 77	1050*9	800,1	1851.0		
Sakconnet Harbor 1/56 Light, 1934  1927  1104.5  287.9  1104.6  1	SS Sakonnet, 1933	~	1927	7. 11	519.4	873.1	1392.5		
Sakonnet   1/55   1927   1104.5   287.9   1392.4   1392.4   1344thouse   1/55   137   11 210.606   246.2   1146.4   1392.6   13	Sekonnet Harbor	1/56	2005	41 27 56,685	1748.7	102.3	1851.0	Pricked direct	
Sakonnet 1/55 1927 4, 27 10.657 334.9 1516.1 1851.0 Pricked direct 1867 1867 1867 192.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1392.6 1146.4 1146.4 1392.6 1146.4 1146.4 1392.6 1146.4 1146.	Light, 1934	7/204	1361	71 11 47.597	1104.5	287.9	1392.4		
1877   1921   1946   1926   1926   1926   1926   1927   1951   1972	Sakonnet	1/55	2005	41 27 10,857	334.9	1516.1	1851.0	Pricked direct	:
Sachuest   1/149   128 37.352   1152.3   698.7   1851.0   Pricked direct   1502.1   1714.9   192.406   682.3   709.9   1392.2	Lighthouse 1897	504/1	1267	71 12 10,606	276.2	1146.4	1392.6		
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Silo, 1954   Wake Topo oard   A/23	(USE) 1940	502/12	1927	71 14 29.406	682.3	709.9	1392,2	***	
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Marren 1927 77 10 21.655 502.6 889.9 1392.5  Warren 1927 77 10 21.655 520.1 872.4 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5 1392.5  Barn 1/100 1927 77 10 26.887 624.0 768.5 1392.5 1392.5 1392.5	Warren (R.I)	2/23		41 27 40,438	1247.5	603.5	1851.0		
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1927   71 10   520.1   872.4   1392.5				12 17	1328,1	582.9	1851.0		
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P	Cupola, 1917	1/205	1351	71 10 26.887	624.0	768.5	1392.5	į	•
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### COMPILATION REPORT Project Ph-142 T-11434

Photogrammetric Plot Report:

Models were held to horizontal control points and passpoints from Washington Office (stereoplanigraph) bridging.

### 31. DELINEATION

The Kelsh plotter was used for delineation on vinylite projection.

Field inspection was good.

Photographs taken in 1956 showing extent of hurricane damage have been received and changes have been made graphically. (425 through 427, 268 through 270, 235 through 237 and 380.

### 32. CONTROL

Horizontal control was adequate. Vertical control is inapplicable.

### 33. SUPPLEMENTAL DATA

None.

### 34. CONTOURS AND DRAINAGE

Drainage is complete. Contours are inapplicable.

### 35. SHORELINE AND ALONGSHORE DETAILS

All shoreline details are from field inspection which was thorough. Photographs taken in 1956 used for comparison and changes have been made.

Low water lines are based on field inspection from mine-lens photographs 43649 through 43651. \*\* TIELD INSPECTION WAS NOT THOROUGH,

SEE REVIEW BACKT AND COMPLETION

### 36. OFFSHORE DETAILS

Notes to hydrographer were submitted 3/30/56. TELECT FOR OTTAILS.

### 37. LANDMARKS AND AIDS

Forms 567 were submitted for one landmark, established by Kelsh Plotter, and one aid.

### 38. CONTROL FOR FUTURE SURVEYS

The positions of three (3) recoverable topographic stations have been established by Kelsh Plotter and shown on the survey. No Forms 524 are submitted.

### 39. JUNCTIONS

Junctions have been made as follows:

To the east with T-11435.

To the West with T-11433.

To the north with T-11430.

### 40. HORIZONTAL AND VERTICAL ACCURACY

No comment necessary.

41. through 45. - Inapplicable.

### 46. COMPARISON WITH EXISTING MAPS

U.S.G.S. 7½ minute quadrangle SAKONNET POINT R. I., scale 1,31,680; edition of 1942, reprinted 1946.

### 47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 353, scale 1:40,000, published 5/26/52, revised 9/55.

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

2 October 1957

J. D. McEvoy Carto. (Photo.)

Approved and forwarded

William F. Deane,

CDR, C&GS

Baltimore District Officer

### PHOTOGRAMMETRIC OFFICE REVIEW

T- 11434

1. Projection and grids2. Title3. Manuscript numbers4. Manuscript size
CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations)7. Photo hydro stations8. Bench marks
9. Plotting of sextant fixes10. Photogrammetric plot report 11. Detail points
ALONGSHORE AREAS
(Nautical Chart Data)
12. Shoreline13. Low-water line14. Rocks, shoels, etc15. Bridges16. Aids
to navigation17. Landmarks18. Other alongshore physical features19. Other along -
shore cultural features
PHYSICAL FEATURES
20. Water features 21. Natural ground cover 22. Planetable contours 23. Stereoscopic
instrument contours 24. Contours in general 25. Spot elevations 26. Other physical
, features
CULTURAL FEATURES  27. Roads 28. Buildings 29. Railroads 30. Other cultural features
BOUNDARIES
31. Boundary lines 32. Public land lines
MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy overlay 37. Descriptive Report 38. Field inspection/photographs 39. Forms 39.
overlay 37. Descriptive Report 38. Field inspection/photographs 39. Forms
40. Reviewer Supervisor, Review Section or Unit
41. Remarks (see attached sheet)
FIELD COMPLETION ADDITIONS AND CORRECTIONS TO THE MANUSCRIPT
42. Additions and corrections furnished by the field completion survey have been applied to the manuscript. The manuscript is now complete except as noted under item 43.
Compiler Supervisor

43. Remarks:

### 48. GEOGRAPHIC NAME LIST

Acuidneck Island Awashonks Pond

Breakwater Point Briggs Peach Briggs Point Brownell Road

Church Cove Church Point Cormorant Reef Cormorant Rock Cullywaugh Rocks Cutty Wow Rock

Dolphin Rock Dundery Brook

East Island Elisha Ledge

Flint Point Ledge

Halfway Rocks

Island Rocks

Long Pond

Old Bull

Quicksand Pond

\*Rhode Island Sound Round Pond

Sachuest
Sachuest Bay
Sachuest Beach
Sachuest Point
Sakonnet
Sakonnet Harbor
\*Sakonnet Point
\*Sakonnet River
\*Schuyler Ledge
Ship Pond Cove
Sisson Brook
Stony Point

Third Beach Tunipus Beach Tunipus Pond

Warren Point Watch House Pond West Island Wilbour Woods Woods Castle

\* B.G.N. Decisions

GROGRAFHIC NAMES SHOT 29 MARCH 1960

567	1945
Form	April

### DEPARTMENT COMMERCE

U. S. COAST AND SEODETIC SURVEY

# NONFLOATING AIDS ON/LIAMINMARKS FOR CHARTS

19%

March 20

Baltimore, Maryland

		,
ONE		
TRIKE OUT ONE		
TO BE CHARTED	<i>ዘ                                    </i>	
10 B	79 A)	-

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on apply 14/1/1/1/1/1 the charts indicated.

Henry P. Eichert The positions given have been checked after listing by \_\_\_

STATE	RHODE ISLAND				POSITION			GOHLEM		2071	TEAH
			3	LATITUDE *	LON	LONGITUDE*		LOCATION	DATE OF	NE CH	CHARTS
CHARTING	DESCRIPTION	SIGNAL	0	D. M. METERS	0	D. P. METERS	DATUM	SURVEY No.		OHSNI OHSNI	H8440
語	Sakomet Breakwater Idght ( \( \times \)	<b>\$</b> ,	14 27	56.685 1748.7	ת ת	1104.5	N.A. 1927	Triang. T-11434	1934	M	353,
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. The data should be considered for the charts of the area and not by

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Form 567 April 1945

# NOWEWPANTMY/AWA/PROR LANDMARKS FOR CHARTS

<i>XII</i>	STRIKE OUT ONE	
TO DE CHADTER	מפואאטט פום טו	TYP/ARTATAP/

Baltimore, Maryland

Marytand M

March 21, 19 56

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (HIMM) the charts indicated.

Henry P. Eichert The positions given have been checked after listing by

DO S DO DA SHORE CHYET  M HARBOR CHART  M HARB								E. H. Kirsch	drsch.	,	Chi	Chief of Party.
Concrete, by 34 (60)  C 5110, 1954)  C 6110, 1954)  C 711434 1954)  C 71154 1954  C 71154	STATE	RHODE ISLAND			-	POSITION			METHOD		TAA	
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	OIIS	Concrete, bt- 3μ (60) ( ○ silo, 195μ)		28	29.63 914		10.7h	NA 1927	air Pho T-11434	.o. 1954		353 1210
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This form shall be prepared in accordance with Hydrographic Manual, pages 800 to 804. Positions of charted landmarks and nonfloating aids to navization if redetermined shall be reported on this form. The data should be considered for the charts of the area and not by

### REVIEW REPORT T-11434 SHORELINE 24 March 1960

### 62. Comparison with Registered Topographic Surveys

182	1:10,000	1844
183 bis	1:10,000	1844
1161	1:10,000	1870
3678	1:10,000	1917
5601	1:10,000	1934
5602	1:10,000	1934
6118 graphic	1:10,000	1934
control		

### 63. Comparison with Maps of Other Agencies

U.S.G.S. Sakonnet Point, R.I. 31,680

### 64. Comparison with Contemporary Hydrographic Surveys

The manuscript was compared with the unverified smooth sheet H-8366. As such, many of the following differences may be resolved as a result of verification.

This smooth sheet covers about half of the manuscript area. The portion east of Sakonnet River has no contemporary survey.

The photographs involved and their stages of tide at time of exposure are as follows:

43648 thru 43651 - @ MLW 54-W-1174 thru 54-W-1177 - @ .6' above MLW 54-W-938 thru 54-W-939 - @ 2.3' above MLW

The heights above datum of the rocks in the vicinity of Sakonnet Point were not given by field inspection due to "rough water and small open skiffs". It is recommended that where necessary, heights be taken from survey T-5601 (1936).

For the convenience of the hydrographic reviewer and the user of this portion of the review report, letter size copies of certain portions of the manuscript, where discrepancies exist, follow this page.

These copies are on ozalid paper with each discrepancy appropriately numbered and keyed to the following listing: \_\_ /

•	NUMBER	DIFFERENCE	COMMENTS
	1	None	Changed during review from rocks awash to small isles. Shown on T-5601 as isles 5' above MHW.
	2	Rock awash or sunken rock. Either separate features or same feature with difference in position and symbolization.	Manuscript position checked during review. Not shown on old survey T-5601 (1934). Feature inspected on 54-W-1175 as rock. Hydro position 15' S.E. Position by sextant fix. Shown as sunken rock.
	3	Either separate feature tures or same feature with difference in position.	Manuscript position checked during review. Position agrees with T-5601 (1934).
	4	Not verified on hydro sheet.	Feature office interpreted. Shown on 43649 only. Agrees in interpretation by analogy with rocks field inspected on this photo.
	5	Same as 2	Same as 2
	6	Same as 4	Same as 4
	7	Shown awash on manu- script. Shown on hydro as sunken.	Office inspected. Not on T-5601 (1934)
	8	Position of only one shown on hydro sheet.	Field inspected on 54-W-1175. Both are evident also on 43649. Most westerly shown on T-5601.
	9	Not shown on hydro sheet.	Rock awash. Office inspected. Evident on both 54-W-1175 and 43649.

NUMBER	DIFFERENCE	COMMENT
10		Field inspected on 43649. Not evident on 54-W-1175. Outside limits of T-5601.
11	awash symbol. Hydro	Position checked during review using 54-W-1176. Rock is also shown on T-5601 (1936) but W. about 13'.
12	Not shown on hydro sheet.	Rock is very definite on 54-W-1176-77 and 43649. No field inspection on datum.
13	and elevation between topo survey and hydro	Checked hydro sextant position during review. Found to be in error. Replotted, now agrees with topo position. Elevation of hydro sheet will be used.

### 65. Comparison with Nautical Charts

353 1:40,000 19th Edition 10/58 1/25/60

Two offshore rocks at approximate Latitude 41°27'52" and Longitude 71°10'00" could not be seen on any of the available photography, the nine-lens of which was taken at low water.

These rocks are not to be found on T-5601 (1934) nor Graphic Control Survey 6118 (1934).

Not any of the submerged rocks shown on the chart are delineated on the manuscript.

Inshore rocks along the extent of Tunipus Beach are not shown on the manuscript due to poor photography i.e. sunspots, clouds, wave action.

Two rocks at approximate respective Latitudes 41°27'25", 41°27'30" and Longitudes 71°10'33", 71°10'31" are not delineated on the manuscript. They cannot be seen on the latest photography nor are they shown on T-5601 (1934) or Graphic Control Survey 6118 (1934).

### 66. Adequacy of Results and Future Surveys

Much of the offshore detail was revised or delineated during final review. This was necessary in part to incomplete field inspection and in part to incomplete or erroneous office delineation.

Considerable time was expended in this effort and a careful study was made of all available photographs and previous topographic surveys before additions or deletions were made.

The field inspection was incomplete in the following ways:

- 1. No inspection of offshore detail could be found of the area from Sakonnet Point north to the sheet limits.
- 2. Photograph 59-W-939 was chosen by the inspector for inspection of foreshore area. This photograph is cloudy, taken at 2.6' above MLW when a very sharp ninelens over this area was available at exactly MLW. Use of the available photography was covered by project instructions.

### 66. Adequacy of Results and Future Surveys Continued

- 3. The above is true also of photo 54-W-1182 except it is not cloudy but of poor clarity.
- 4. Heights above water were not given on any of the offshore rocks. The field inspection report item 8 mentions that the heights of rocks in the area off Sakonnet Point were not given due to "rough water and small open skiffs". No mention is made of other areas.
- 5. Field inspection report item 7 says "the low water line was inspected at time of two low waters"; yet, much of the area no low water line is given.

The office delineation was erroneous or incomplete in the following ways:

- 1. Many images were office interpreted as rocks when they appeared on one photograph only. A check of several photos and use of copies of T-5601 (1934), T-5602 (1934) would have substantiated the image as a probable rock.
- 2. Foul lines were taken from field inspected photographs when the field inspected photograph was obviously in error.
- 3. Many offshore rocks were added during review. All of these rocks were readily apparent on the photographs, particularly the nine-lens prints. They also were confirmed by reference to previous surveys.

It is believed that the reviewed manuscript when coupled with the contemporary hydrographic survey will present an adequate and complete representation of offshore detail. A field edit is not recommended.

The survey in all other respects complies with project instructions and meets National Standards of Map Accuracy.

REVIEWED BY:

A K Hewwood

APPROVED BY:

Chief, Review and Edit

L. W. Swanson

Ass 4. Chief, Photogrammetry Division

Marvin Haufen J. G. Wlast
Chief, Chart Division Opief, Coastal Surveys Division
Nautical

### NAUTICAL CHARTS BRANCH

SURVEY NO. T-111434

### Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
12-12-61	237	m. Roger	Oppld fully Before After Verification and Review
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			Before After Verification and Review
			M-216s-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.