**DESCRIPTIVE REPORT**

**Type of Survey:** Shoreline

**Field No.:** Ph-1142  **Office No.:** T-11438

**LOCALITY**

**State:** Rhode Island

**General locality:** Rhode Island Sound

**Locality:** Point Judith Neck

---

**1954**

**CHIEF OF PARTY**

L.F. Woodcock, Chief of Field Party

W.P. Deane, Balto. District Office

---

**LIBRARY & ARCHIVES**

**DATE:** April 1962
DATA RECORD

Project No. (II): Ph-142
Quadrangle Name (IV):

Field Office (II): Groton, Conn.
Chief of Party: L. F. Woodcock

Photogrammetric Office (III): Baltimore, Md.
Officer-in-Charge: William F. Deane

Instructions dated (II) (III): 8 June 1954, 18 Aug. 1954,
15 Sept. 1955
Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Air Photographic (Kelsh Plotter)

Manuscript Scale (III): 1:10,000
Stereoscopic Plotting Instrument Scale (III): 1:4000
(Pantograph ratio 2/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Applied to Chart No. Date:

Publication Scale (IV):
Publication date (IV):

Geographic Datum (III): N.A. 1927
Vertical Datum (III):
Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (g) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): GREENE, 1940

Lat.: 41° 23' 00.814"
Long.: 71° 28' 41.858"

Adjusted

Plane Coordinates (IV):
State: Zone:

Y =
X =

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

Field Inspection by (II): W. M. Reynolds  
Date: Aug. 1954

Planetable contouring by (II):  
Date:

Completion Surveys by (II):  
Date:

Mean High Water Location (III) (State date and method of location):  
21 April 1956; Photogrammetric (Kelsh)

Projection and Grids ruled by (IV): Austin Riley  
Date: 7 Oct. 1954

Projection and Grids checked by (IV): Austin Riley  
Date: 8 Oct. 1954

Control plotted by (III): J. B. McDonald  
Date: 10 Aug. 1955

Control checked by (III): J. D. Perrow, Jr.  
Date: 10 Aug. 1955

Radial Plot or Stereoscopic Control extension by (III): C. E. Cook  
Date: ---

Stereoscopic Instrument compilation (III):  
Planimetry D. M. Brant  
Date: 1 April 1956

Manuscript delineated by (III): C. A. Lipscomb  
Date: 19 Oct. 1956

Photogrammetric Office Review by (III): J. D. McEvoy  
Date: 10 July 1956

Elevations on Manuscript checked by (II) (III):  
Date: ---
Camera (kind or source) (III): USGS Type "W" 6" focal length

PHOTOGRAPHS (III)

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<th>Number</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>5h-W-996 thru 1000</td>
<td>4/22/54</td>
<td>1200</td>
<td>1:20,000</td>
<td>1.8' above MLW</td>
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<tr>
<td>5h-W-1004 thru 1007</td>
<td>&quot;</td>
<td>1205</td>
<td>&quot;</td>
<td>1.9' above MLW</td>
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Tide (III)
From predicted tables.

<table>
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<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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</thead>
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<tr>
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<td>4.1</td>
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<tr>
<td>0.9</td>
<td>3.1</td>
<td>3.9</td>
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</tbody>
</table>

Reference Station: Newport, R.I.
Subordinate Station: Pt. Judith Harbor

Washington Office Review by (IV): [Signature]

Final Drafting by (IV): [Signature]
Drafting verified for reproduction by (IV): [Signature]

Proof Edit by (IV): [Signature]

Land Area (Sq. Statute Miles) (III): 9
Shoreline (More than 200 meters to opposite shore) (III): 11
Shoreline (Less than 200 meters to opposite shore) (III): --
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 18
Recovered: 11
Identified: 6
Number of BMs searched for (II):
Recovered: 3
Identified: --
Number of Recoverable Photo Stations established (III):
None
Number of Temporary Photo Hydro Stations established (III):
None

Remarks:
SUMMARY
PROJECT PH142
TWENTY-FOUR

This project consists of 3 3/4' X 7 1/2', 1:10,000 scale shoreline maps. Three manuscripts T-11444, T-11448 and T-11449 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 scribbled and transmitted to the Washington Office by Baltimore District Office.

Final Review was completed by April 1960.

Submitted by:

A. K. Maywood
2. AREAL FIELD INSPECTION

This shoreline sheet is located in southern Rhode Island. The area is rural except for the village of Narragansett Pier and the area immediately adjacent to the shore which is chiefly a resort area and no other sizable industry is in evidence.

Photography was of recent date and of good quality and no difficulty was encountered in their interpretation in the field.

Field investigation was completed in August prior to the hurricane of 31 August and is believed complete to that time. The hurricane did extensive damage to the coastal areas and revisions will be required as the area was not inspected after the hurricane.

Field inspection was also completed prior to receipt of Instructions, Project Ph-142(Field) Supplement 3, and the inspection was not revised to comply therewith.

Field inspection was performed on the following photographs: 54-W-996 through 54-W-999; 54-W-1003 through 54-W-1007; and nine-lens photographs 43625, 43626 and 43627.

No items were deliberately left for the field editor.

Notes have been made in violet ink on the photographs of changes made by hurricanes.

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and where recovered was identified except where density of the stations made it unnecessary.

No control of any other agency was searched for or recovered.

The following stations were reported lost: POOR FARM (USE) 1909; DEPEW (USE) 1909; HAZARD CASTLE 1869; AUSTIN 1839; WHITE HOUSE CHIMNEY 1839; BATTERY 109 1943; and TOWER NO 7 1943.

4. VERTICAL CONTROL

The following tidal bench marks were recovered: POINT JUDITH POND, NORTH END, TIDAL BENCH MARKS 1(1948), 2(1948) and 3(1948).

5. CONTOURS AND DRAINAGE

No contouring was required for this shoreline sheet.

Drainage, which is not self-evident on the photographs, has been inked in. Swamp limits have been indicated where necessary for clarity.
6. WOODLAND COVER

Woodland cover is adequately covered by the field inspection photographs.

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line was inspected at intervals by walking along the shore and has been indicated by symbol on the photographs.

The area was visited at low water and where the low water line was any appreciable distance from the mean high water line it was indicated on nine-lens photographs 43625, 43626 and 43627.

The foreshore is steep and rocky in most places. The exception being along the short stretches of sand beaches. In these areas the slope is gradual from the mean high water line to the mean low water line.

Bluffs and cliffs, where they exist, are adequately covered by the field inspection photographs.

All docks, wharves, piers, etc. are adequately covered by the field inspection photographs.

The submarine cables in the area, as shown on the published charts, could neither be confirmed or denied. There are no cable signs along the beach.

There are no other shoreline structures in the area.

8. OFFSHORE FEATURES

The elevations for two offshore rocks was determined by hand level. The date and height above the water was noted on the photographs.

9. LANDMARKS AND AIDS

Landmarks for nautical charts are adequately covered by Form 567 and the photographs.

There are no fixed aids to navigation.

10. BOUNDARIES, MONUMENTS AND LINES

There are no state boundaries within this sheet.

11. OTHER CONTROL

None was established.
12. **OTHER INTERIOR FEATURES**

All roads and buildings have been classified in accordance with the project instructions dated 8 June 1954. Class 1 buildings were indicated by a red "x" upon the image of the building. Class 2 buildings were indicated by the numeral 2 in red ink upon the image of the building.

There are no bridges or cables over navigable waters.

There are no airports or landing fields in the area.

13. **GEOGRAPHIC NAMES**

Special Report, Geographic Names, Project Ph-142.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

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

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


Submitted
20 October 1954

*William M. Reynolds*
William M. Reynolds
Carto, Survey Aid

Approved & Forwarded
**OCT 25 1954**

*Lorin F. Woodcock*
Lorin F. Woodcock
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR $\phi$-COORDINATE</th>
<th>LONGITUDE OR $\lambda$-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
<th>FACTOR DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
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<td>1/78 499/21</td>
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<td>41.22</td>
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<td></td>
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<td></td>
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<td>BG 2</td>
<td>1/78 499/21</td>
<td>1927</td>
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<td>B. 1/10 1943</td>
<td>1/85 499/21</td>
<td>1927</td>
<td>41.23</td>
<td>00.231</td>
<td>7.2</td>
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<td>1/84 499/21</td>
<td>1927</td>
<td>41.23</td>
<td>00.488</td>
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<td>1394.1</td>
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<tr>
<td>Dillon (USE)</td>
<td>1/135 499/10</td>
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<td>41.26</td>
<td>12.458</td>
<td>384.3</td>
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<td>1909</td>
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<td>(USE) 1909</td>
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<td>Chimney, 1869</td>
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<td>Hazard Tower,</td>
<td>1/41 500/13</td>
<td>1927</td>
<td>41.24</td>
<td>55.189</td>
<td>1702.6</td>
<td>1851.0 Pricked direct</td>
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<td></td>
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<td>Greene, 1940</td>
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<td>1927</td>
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<td>00.814</td>
<td>25.1</td>
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<td>Kenyon North</td>
<td>1/116 499/10</td>
<td>1927</td>
<td>41.23</td>
<td>49.725</td>
<td>1534.0</td>
<td>1851.0 Pricked direct</td>
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<tr>
<td>(USE), 1909</td>
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<td></td>
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<tr>
<td>Point Judith</td>
<td>1/41 499/22</td>
<td>1927</td>
<td>41.23</td>
<td>23.533</td>
<td>726.0</td>
<td>1851.0 Pricked direct</td>
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<td></td>
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<tr>
<td>Tank, 1940</td>
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<td></td>
<td></td>
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<td></td>
</tr>
</tbody>
</table>
Photogrammetric Plot Report:
Models were held to horizontal control points and pass points from Washington Office (Stereoplanigraph) bridging.

31. **DELINEATION**

The Kelsh plotter was used for delineation on vinylite projection. The final manuscript was prepared in two halves by standard scribing methods. Field inspection was good.

Inland changes have been made from 1956 photographs.

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. Low water lines are based on field inspection from nine-lens photograph 43626. 1956 photography was used for shoreline changes (56-W-148 thru 150). Most of the shoreline appears to have changed little, except for pier deletions and new piers. Without the aid of new shoreline inspection other possible changes could not be made with certainty.

36. **OFFSHORE DETAILS**

Notes to hydrographer were submitted on 30 March 1956.

37. **LANDMARKS AND AIDS**

Form 557 has been submitted for two landmarks.
38. **CONTROL FOR FUTURE SURVEYS**
   No topographic stations have been established.

39. **JUNCTIONS**
   Junctions have been made as follows:
   
   To the north with T-11432.
   To the south with T-11441.
   To the west with T-11437.

40. **HORIZONTAL AND VERTICAL ACCURACY**
   No comment.

41. through 45.
   Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

47. **COMPARISON WITH NAUTICAL CHARTS**
   Chart No. 1210, scale 1:80,000 at Latitude 41° 27', published at Washington, D. C., revised 3/31/56.
   Items to be applied to Nautical Charts immediately: None.
   Items to be carried forward: None.

Respectfully submitted
13 November 1957

Joseph D. McEvoy
Carto. (Photo.)

Approved and forwarded

William F. Deane
CDR, C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW
T-11435


CONTROL STATIONS
5. Horizontal control stations of third-order or higher accuracy 6. Recoverable horizontal stations of less
than third-order accuracy (topographic stations) 7. Photo hydro stations 8. Bench marks

ALONGSHORE AREAS
(Nautical Chart Data)
to navigation 17. Landmarks 18. Other alongshore physical features
19. Other alongshore cultural features

PHYSICAL FEATURES
features

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines 32. Public land lines

MISCELLANEOUS
33. Geographic names 34. Junctions 35. Legibility of the manuscript 36. Discrepancy

40. [Signature]
Reviewer

[Signature]
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.

43. Remarks:
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<thead>
<tr>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE°</th>
<th>LONGITUDE°</th>
<th>DATUM</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<tbody>
<tr>
<td>Stone, ht=80 (155)</td>
<td>(△ Hazard Tower, 1940)</td>
<td>11 24</td>
<td>55.189</td>
<td>71.27</td>
<td>626.978</td>
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<td>Triang, T-11438</td>
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<td>TANK</td>
<td>Water, skeleton steel, ht=145 (185)</td>
<td>(△ Point Judith Tank, 1940)</td>
<td>11 23</td>
<td>23.533</td>
<td>01.163</td>
<td>1927</td>
<td>1</td>
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</tbody>
</table>

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

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

E. H. Kirsch, Chief of Party.
T-11438. Geographic Names.

Black Point
Bluff Hill Cove
Bog Rock

Cedar Point
Champlin Cove
Clarke Road
Cornins Beach
Crooked Brook

Dead Man Brook

Earls Road (not Earles)

Foddering Place
Frank Neck

Goose Island
Great Island
Gunning Rock

Horseshoe Point
Houston Pat

Indian Rock

Knowles Beach

Lake Canonschet (not Caronchet)
League Rock
Lido Beach
Little Beach
Little League Rock
Little Neck (title only)
Little Neck Pond
Locke Point
Long Bar Point
Long Cove
Narragansett Pier
Ocean Road
Old Point Judith Road
Olivo Beach

Point Judith (title only)
Point Judith Neck
Point Judith Pond

Quahog Rock

Ram Head
Ram Island
Ram Point
Rye Point
T-11438. Geographic Names, continued:

Rhode Island (title only)
Rhode Island Sound (not Atlantic Ocean)

Salt Pond View
Scarborough Hills
Scarborough State Beach
Short Point
Silver Lake
Silver Spring Cove
South Pier Road
Sprague Park
Sprague Pond
Spring Cove
Stone Water Fence Cove (not water)
Tillow Hill Point
The Brothers
The Narrows

Upper Pond

Wakefield
Welcome Cove
Wheatfield Cove
Wolcott Cove
Wood Hill
Woodruff Avenue

Names approved 4-4-58
L. Heck
62. Comparison with Registered Topographic Surveys

<table>
<thead>
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<th>No.</th>
<th>Scale 1:10,000</th>
<th>Year</th>
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<td>91</td>
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<td>1839</td>
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<td>92</td>
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<td>1839</td>
</tr>
<tr>
<td>1226</td>
<td></td>
<td>1871</td>
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<tr>
<td>2602</td>
<td></td>
<td>1902</td>
</tr>
<tr>
<td>7100 a&amp;b</td>
<td></td>
<td>1948</td>
</tr>
<tr>
<td>5095</td>
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<td>1948-49</td>
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</tbody>
</table>

See Item #67.

63. Comparison with Maps of Other Agencies

USGS Narragansett, Pier, R. I. 1:31,680 1944

64. Comparison with Contemporary Hydrographic Surveys

<table>
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<th>No.</th>
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<th>Year</th>
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<tbody>
<tr>
<td>8315</td>
<td></td>
<td>1956</td>
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</table>

This contemporary verified survey covered the area north of Gunning Rock or about half of the manuscript.

Stereoscopic examination and field inspection on nine-lens photographs confirm the foreshore in the areas of Narragansett Pier and south of Scarborough Beach as sand and boulders instead of ledge as shown on the hydrographic sheet. The ledge delineation on the hydro smooth sheet came from an advance copy of the topographic manuscript. The foreshore area was revised during final review.

Not any of the offshore rocks shown on the contemporary hydrographic sheet were field inspected.

Other than the above, there are no differences between the two surveys and they are in good agreement.

65. Comparison with Nautical Charts

<table>
<thead>
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<th>No.</th>
<th>Scale 1:15,000</th>
<th>Edition</th>
<th>Date</th>
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<tr>
<td>268</td>
<td></td>
<td>1st Edition March 1953</td>
<td>12/21/59</td>
</tr>
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</table>

The ledge line in the area WNW of Little League Rock was taken from a 1887 hydrographic survey. No trace of this formation could be found on low water photography.
66. Adequacy of Results and Future Surveys

This map complies with all instructions and meets the National Standards of Map Accuracy.

67. Recommendations

It is recommended by the reviewer that fuller use be made of previous Bureau surveys by the field inspection party, particularly as applies to offshore detail.

The proper delineation of shoreline and offshore information is the joint responsibility of the field inspector and the hydrographer.

Many details out from the MHWL on this project shown on previous 1936-1938 Bureau surveys are not specifically mentioned by either the inspection party or hydrography.*

Copies of these previous surveys are furnished to the field on double weight ozalid paper suitable for annotation by the investigating photogrammetric party. Details such as rocks, piers, jetties etc., should be definitely marked with suitable commentary so that they may either be carried forward or deleted from the new manuscript. This then would clear up any doubts in the minds of the chart compiler and reviewer as to whether or not these features still exist.

*Yet, the instructions to the reviewer for Item 63, Review Report, charge him with making a specific statement as to whether or not this (new) survey "supercedes all previous surveys......."

Submitted by:

A. K. Heywood

Approved by:

L. C. Lande
Chief, Review & Edit

Marvin R. Pulver
Chief, Nautical Charts Division

Chief, Photogrammetry Division

Chief, Coastal Surveys Division
NAUTICAL CHARTS BRANCH

SURVEY NO. T-11438

Record of Application to Charts

<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
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<td>Verification and Review</td>
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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.