Form 504
U.S. DEPARTMENT OF COMMERCE
COAST AND GEODETIC SURVEY

DESCRIPTIVE REPORT

Type of Survey Shoreline
Field No. Ph-142 Office No. T-11440

LOCALITY
State Rhode Island
General locality Block Island Sound
Locality Charlestown Beach to Sand Hill Cove

1954

CHIEF OF PARTY
L.P. Woodcock, Chief of Party
W.P. Deane, Balto. District Office

LIBRARY & ARCHIVES

DATE April 1962
DESCRIPTIVE REPORT - DATA RECORD

T= 11440

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
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): 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): N.A. 1927

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

Reference Station (III): GREEN HILL, 1938

Lat.: 41° 22' 24.145"
Long.: 71° 35' 51.726"
Adjusted 1960

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)
DESCRIPTIVE REPORT - DATA RECORD

Field Inspection by (II): M. A. Stewart
Date: July 1954

Platetable contouring by (II):
Date:

Completion Surveys by (II):
Date:

Mean High Water Location (III) (State date and method of location): 22 April 1954 for shoreline west of Matunuck Point. 21 April 1956 for Matunuck Point and eastward; Photogrammetric (Kelsh).

Projection and Grids ruled by (IV): A. Rose
Date: 3 Dec. 1954

Projection and Grids checked by (IV): A. Rose
Date: 10 Dec. 1954

Control plotted by (III): J. B. McDonald
Date: 17 Aug. 1955

Control checked by (III): J. Perrow
Date: 17 Aug. 1955

Radial Plot or Stereoscopic Control extension by (III):

E. L. Rolle
Date: 24 May 1956

Stereoscopic Instrument compilation (III):

Planimetry E. L. Rolle
Date: 1 June 1956

Manuscript delineated by (III): C. A. Lipscomb
Date: 6 Feb. 1957

Date: 15 June 1956

Elevations on Manuscript checked by (II) (III):
Date:

COMM-DC-57442
### DESCRIBITIVE REPORT - DATA RECORD

**Camera (kind or source) (III):**

<table>
<thead>
<tr>
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<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
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<td>1200</td>
<td>1:20,000</td>
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<td>1001</td>
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<td>1.8' above MLW</td>
</tr>
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<td>1454</td>
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<td>0.1' above MLW</td>
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<td>1454</td>
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<td>0.1' above MLW</td>
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<td>1454</td>
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<tr>
<td>1252</td>
<td>n</td>
<td>1454</td>
<td>n</td>
<td>0.1' above MLW</td>
</tr>
</tbody>
</table>

**Tide (III):**

- **Reference Station:** Newport, R. I.
- **Subordinate Station:** Ft. Judith Harbor
- **Ratio of Ranges:**
  - Mean Range: 3.5
  - Spring Range: 4.4

**Drafting verified for reproduction by (IV):** A.K.H.

**Proof Edit by (IV):**

- **Land Area (Sq. Statute Miles) (III):** 2
- **Shoreline (More than 200 meters to opposite shore) (III):** 8
- **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):** None
- **Number of Temporary Photo Hydro Stations established (III):** None

**Remarks:**

**Date:** April 21, 1960

**Date:** Aug 25, 1960

**Date:**
SUMMARY

PROJECT #H 142
TWENTY-FOUR

This project consists of 3 3/4 x 7 1/4, 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 multiples 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 5 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 Baltimore District Office.

Final Review was completed by April 1960.

Submitted by:

A. E. Heywood
2. AREAL FIELD INSPECTION

This area is part of the north shore of Block Island Sound and lies west of Point Judith including most of the Point Judith Harbor of Refuge.

The area is chiefly residential, both permanent and seasonal, although it is becoming less seasonal.

There are a few small dairy farms.

Photographic quality was good. No difficulty was encountered in interpretation of the photographs.

Field inspection notes were applied to 1:10,000 scale ratio prints of single lens photographs 54-W-1000 and 54-W-1001; 54-W-1246 through 54-W-1251 and 1:10,000 scale nine-lens photograph 43735.

Field work was completed prior to the hurricanes of 31 August and 11 September 1954. Damage to buildings along the shoreline and other shoreline structures was extensive. Field inspection was not revised after the hurricanes.

3. HORIZONTAL CONTROL

No supplemental horizontal control was established.

No control of other agencies was searched for.

The following stations were reported lost: CHURCH CUPOLA 1913; HOUSE CUPOLA (BURN) 1939; GREEN HILL POINT COAST GUARD FLAG TOWER 1939; and BOAT HOUSE SE CORNER 1912.

4. VERTICAL CONTROL

There is none.

5. CONTOURS AND DRAINAGE

Contours inapplicable.

Drainage was developed and classified by standard symbols in blue ink.

The limits of marsh and swamp were indicated by symbol.

6. WOODLAND COVER

Adequately covered by field inspection notes and the photographs.
7. **SHORELINE AND ALONGSHORE FEATURES**

   See Field Inspection Report, T-11439( ) for mean high water line information.

   The mean low water line was inspected during one low water and the approximate mean low water line indicated on nine-lens photograph 43735. **This is in error; there is no line inspected on this photo.**

   Other alongshore features are adequately covered by field inspection notes on the photographs.

8. **OFFSHORE FEATURES**

   Offshore features are the breakwaters of Point Judith Harbor of Refuge and rocks near the shore. These are adequately covered by field inspection notes.

9. **LANDMARKS AND AIDS**

   One new landmark was selected and recommended for charting. There are four fixed aids to navigation. All are adequately covered by the photographs and forms 567.

10. **BOUNDARIES, MONUMENTS AND LINES**

    There are no state boundaries in the area.

    **One small military reservation exists on Green Hill. The area limits were indicated along the fence enclosing it. The reservation encloses three coast artillery observation and fire control towers which are now abandoned. It has no individual name.**

11. **OTHER CONTROL**

    None was required.

12. **OTHER INTERIOR FEATURES**

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

    Class 1 buildings were indicated by placing a red "x" upon the image of the building. Class 2 buildings were indicated in the same manner; except the numeral 2 was used instead of the red "x".

    All other interior features are adequately covered by field inspection notes.
13. GEOGRAPHIC NAMES

No discrepancies were noted during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

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

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

Letter of Transmittal No. Ph-142-18, Data, Map T-11437, forwarded to Washington Office OCT 27 1954

Letter of Transmittal No. Ph-142-19, Data, Map T-11440, forwarded to Washington Office OCT 27 1954

Submitted
20 October 1954

Matthew A. Stewart
Cartographic Survey Aid

Approved & Forwarded
OCT 27 1954

Lorin F. Woodcock
Chief of Party
PHOTOGRAMMETRIC PLOT REPORT  
Project Ph-1142  
T-11440

21. **AREA COVERED**


22. **METHOD**

Pass points for controlling the Kelsh models were established from bridging by multiplex in areas not bridged by stereoplanigraph. Work was done on 1:10,000 scale projections on vinylite. These in turn were used when setting up and plotting the Kelsh models.

23. **ADEQUACY OF CONTROL**

Horizontal control points were adequate for controlling the bridged strips. Sketch of control is attached. Except for the following, all those points discussed in letter to Chief, Division of Photogrammetry, dated 25 October 1956, all other points were held within 0.5 mm.

KING HOUSE, SOUTH GABLE, 1935 (T-11446) was probably misidentified as the geographic position plotted on the south gable of a house about one-quarter of a mile south of the identified point.

Sub Point ASHAWAY (Conn), 1937 (T-11443) could not be identified in the model. The image was too small.

Sub Point 2095 (COG), 1939 (T-11445), identified by the field party, could not be used as they neglected to record the measurements thereto.

Ties with the Washington Office pass-points (Stereoplanigraph) on T-11443, were very good.

24. **SUPPLEMENTAL DATA**

None.

25. **PHOTOGRAPHY**

Photography was good. Coverage and overlap were adequate. Quality of the diapositives was good.

Respectfully submitted

Henry P. Eichert  
Super. Carto.
To: Chief, Division of Photogrammetry
Coast and Geodetic Survey,
Washington 25, D. C.

Subject: Supplementary Bridging, Project 27300 (6142)

The multiplex bridging needed to obtain additional pass points for our Kelsh models has now been completed. The results of the several strips run over the area appear satisfactory.

Horizontal control points were held in our bridges either on or within 0.5 mm. There were several points, nevertheless, which could not be held within this limit. Other control was adequate to prove that these several points were in error. These points not held were:

LATHROP, 1934 - This point was picked direct as the center of an offshore boulder (T-11445). The identified position plotted 0.6 mm southwest of its position.

DODGE, 1934 - Reference Mark No. 1 had been selected as the Sub. Pt. (T-11446). It was picked as the center of a boulder. The multiplex positions plotted 0.7 mm northeast of its position.

NO. 4 (USE), 1934 - Reference Mark No. 2 had been selected as the Sub. Pt. (T-11446). It was, also, picked as the center of a boulder. The multiplex position plotted about 2.0 mm southwest of its position.

TOWER NO. 6, 1943 - This point was picked direct and a Sub. Pt. also selected and identified (T-11440). Neither would hold. The identified position of the tower plotted about 1.5 mm northwest of its position and the Sub. Pt., 2.0 mm east.

CHARLESTOWN, U. S. NAVY AUX. AIR FIELD CONTROL TOWER, 1943 - The control tower as identified, would not hold (T-11439). Nevertheless, the geographic position held very well on what appeared to be a tower on another building, 6.0 mm southwest.

All field data was inspected and computations checked. A 0.6 mm mistake in the computation of Sub. Pt. DODGE was corrected, which still left the discrepancy of 0.7 mm as reported. No reasons for these discrepancies were discovered.

(Signed) E. H. Kirsch
E. H. Kirsch,
Capt. C&GS
Baltimore District Officer
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>DATUM CORRECTION</th>
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<td>Blg1, 1943</td>
<td>1/81</td>
<td>41-22-24.28</td>
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<td>71-35-53.464</td>
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<td>Blg2, 1943</td>
<td>1/81</td>
<td>41-22-24.941</td>
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<td></td>
<td>71-35-49.368</td>
<td>1147.3 (1918.0)</td>
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<td>B2, 1943</td>
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<td>41-22-24.370</td>
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<td>Carpenter</td>
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<td>(USE), 1909</td>
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<td>71-32-48.277</td>
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<td>Church, Cupola</td>
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<td>(1913)</td>
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<td>71-32-28.388</td>
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<td>Green Hill, 1838</td>
<td>1/39</td>
<td>41-22-24.145</td>
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<td></td>
<td>71-35-51.726</td>
<td>1202.1 (1922.2)</td>
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<td>House Cupola (burn), 1939</td>
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<td>71-35-53.53</td>
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<td>Breakwater Light, 1918</td>
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<td>STATION</td>
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<td>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</td>
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<td>Point Judith Harbor Breakwater West Light, 1948</td>
<td>1/150 499/22</td>
<td>NA 1927</td>
<td>41-21-40.595</td>
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<td>Point Judith Pond, Reflector, 1948</td>
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<td>&quot; 1927</td>
<td>41-22-27.048</td>
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<td>&quot; 1927</td>
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<td>SS Carpenter (USE), 1909</td>
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<td>41-22</td>
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<td>SS Tower No. 6, 1943</td>
<td>&quot;</td>
<td>&quot;</td>
<td>41-21</td>
<td>1741.2 (109.8)</td>
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31. **DELINEATION**

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

Photographs or other information showing extent of hurricane damage have been received only for area including Matunuck Point and eastward. Changes have been made.

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. Corrections from 1956 photographs where available were minor (56-W-1247 and 1240). Most of the shoreline appears not to have changed appreciably. Without the aid of new field inspection, other possible changes could not be made with certainty.

36. **OFFSHORE DETAILS**

See Item 49.

37. **LANDMARKS AND AIDS**

Point Judith Inner Breakwater Daybeacon has been omitted from Form 567. It was destroyed and also rebuilt in 1955. Consequently, there are three Aids and one Landmark on this survey.
38. CONTROL FOR FUTURE SURVEYS

A set of 1:10,000 ratio prints showing points for photo-hydro control has been prepared.

No topographic stations have been established.

39. JUNCTIONS

Junctions have been made as follows:

To the north with T-11437.
To the east with T-11431.
To the south in Block Island Sound.
To the west with T-11439.

40. HORIZONTAL AND VERTICAL ACCURACY

Correction of shoreline and other details may be required west of Matunack Point because of hurricane damage.

41. through 45.

Inapplicable.

46. COMPARISON WITH EXISTING MAPS


47. COMPARISON WITH NAUTICAL CHARTS


Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

Joseph D. McEvoy

Approved and Forwarded 10/30/57

Joseph D. McEvoy
Cartographer

William F. Deane
CIR C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW
T-11440


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)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✓ 32. Public land lines —

MISCELLANEOUS

Reviewed by: [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.

Compiler: [Signature]  Supervisor: [Signature]

43. Remarks:
DEPARTMENT OF COMMERCE  
U.S. COAST AND GEODETIC SURVEY  

NONFLOATING AIDS OR LANDMARKS FOR CHARTS  

Baltimore, Maryland  
24 October 1957  

I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (underline) the charts indicated.  
The positions given have been checked after listing by Henry P. Eichert

<table>
<thead>
<tr>
<th>STATE</th>
<th>RHODE ISLAND</th>
<th>CHARTING NAME</th>
<th>DESCRIPTION</th>
<th>SIGNAL NAME</th>
<th>LATITUDE*</th>
<th>LONGITUDE*</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>LATITUDE</th>
<th>LONGITUDE</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
<th>CHARTS AFFECTED</th>
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<tbody>
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<td></td>
<td>LT</td>
<td>Point Judith Harbor of Refuge Main Breakwater, Center Light</td>
<td>11 21</td>
<td>149.8</td>
<td>71 30</td>
<td>659.1</td>
<td>1927</td>
<td>T-11140</td>
<td>1948</td>
<td>X</td>
<td>268, 1210, 1211</td>
<td></td>
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<td></td>
<td></td>
<td>LT</td>
<td>(Δ Main Breakwater Center Light 2, 1948)</td>
<td>1</td>
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<tr>
<td>R.I.</td>
<td></td>
<td>LT</td>
<td>Point Judith Harbor of Refuge Main Breakwater West Light</td>
<td>11 21</td>
<td>1252.3</td>
<td>71 30</td>
<td>1147.6</td>
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<tr>
<td></td>
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<td>LT</td>
<td>(Δ Point Judith Harbor of Refuge Main Breakwater West Light, 1948)</td>
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<td>R.I.</td>
<td></td>
<td>LT</td>
<td>Point Judith Harbor of Refuge West Breakwater Light</td>
<td>11 21</td>
<td>1718.6</td>
<td>71 30</td>
<td>1275.7</td>
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<td>LT</td>
<td>(Δ Point Judith Harbor of Refuge West Breakwater Light, 1948)</td>
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</table>

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 individual field survey crews. Information under each column headings should be given.
49. NOTES FOR THE HYDROGRAPHER

A set of 1:10,000 ratio prints, showing detail points established for use in locating hydro signal sites, is included.

There are no recoverable topographic stations.

The area of Nebraska Shoal, not visible on the photographs, has not been located.
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (X) the charts indicated.

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

<table>
<thead>
<tr>
<th>STATE</th>
<th>RHODE ISLAND</th>
<th>POSITION</th>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>CHARTS AFFECTED</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
<td>SIGNAL NAME</td>
<td>LATITUDE °</td>
<td>LONGITUDE °</td>
</tr>
<tr>
<td>TO:ER (CENTER OF THREE), abandoned Coast</td>
<td>Artillery fire control tower, ht = 58 (129) (△ E3 S3, 1943)</td>
<td>h1 22 751.8 71 35 1199.5 1927</td>
<td>Triang. T-11440</td>
<td>1943</td>
</tr>
</tbody>
</table>

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 individual field engineer's chart.
REVIEW REPORT T-11440
Shoreline
April 21, 1960

62. Comparison with Registered Topographic Surveys

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Year</th>
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<tr>
<td>91</td>
<td>1:10,000</td>
<td>1839</td>
</tr>
<tr>
<td>1271</td>
<td>&quot;</td>
<td>1872</td>
</tr>
<tr>
<td>1226</td>
<td>&quot;</td>
<td>1871</td>
</tr>
<tr>
<td>3388</td>
<td>1: 5,000</td>
<td>1913</td>
</tr>
<tr>
<td>5095</td>
<td>1:10,000</td>
<td>1948</td>
</tr>
</tbody>
</table>

The above surveys are superceded by the new manuscript in common areas for nautical chart construction.

63. Comparison with Maps of Other Agencies

USGS Kingston, R. I. 1:31,680 1942

64. Comparison with Contemporary Hydrographic Surveys

None

65. Comparison with Nautical Charts

1211 1:80,000 7 Ed. January 1941 8/24/59

66. Adequacy of Results and Future Surveys

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

Hurricane "Carol" caused extensive damage to this area in late August 1954 after field inspection had been completed. The inspection was not revised.

Submitted by
A. K. Heywood

Approved

L. C. Lande, Chief
Review Section

Chief, Chart Division

G. W. Swanson, Chief
Photogrammetry Division

Chief, Coastal Surveys Division
# 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.