**Type of Survey**: Shoreline

**Field No.** Ph-116  **Office No.** T-11169

**Locality**
- **State**: Massachusetts
- **General Locality**: Massachusetts Bay
- **Locality**: Green Harbor

**1952-53**

**Chief of Party**

E. H. Kirsch, Chief of Party

**Library & Archives**

**Date**: January 2, 1966
DATA RECORD

T-11169

Project No. (II): Ph-116 Quadrangle Name (IV):


Photogrammetric Office (III): Baltimore, Maryland Officer-in-Charge: E. H. Kirsch

Instructions dated (II) (III): 30 April 1953
9 June 1953 (Supplement 1)
9 July 1953 (Supplement 2)
11 July 1953 (Supplement 3)
10 July 1953 (Letter 70-1m)
12 Feb. 1954 (Office)

Copy filed in Division of Photogrammetry (IV)

Method of Compilation (III): Graphic

Manuscript Scale (III): 1:10,000 Stereoscopic Plotting Instrument Scale (III):

Scale Factor (III): 1.000

Date received in Washington Office (IV): DEC 20 1957

Date reported to Nautical Chart Branch (IV):

Applied to Chart No. Date: Date registered (IV):

Publication Scale (IV):

Publication date (IV): MHW

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

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

Reference Station (III): THIRD CLIFF SCITUATE OP, 1940

Lat.: 42° 10' 33.979" (1048.4m) Long.: 70° 42' 56.425" (1295.1m) Adjusted

Plane Coordinates (IV):

State: Massachusetts Zone: Mainland

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.
Not Applicable
SHORELINE

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

Field Inspection by (II): W. M. Reynolds  Date: July 1953

Planetary contouring by (II):  None  Date:

Completion Surveys by (II):  Date:

Mean High Water Location (III) (State date and method of location): 1953, Field inspection.

Projection and Grids ruled by (IV): A. Riley  Date: 10/30/53

Projection and Grids checked by (IV): H. D. Wolfe  Date: 11/2/53

Control plotted by (III): J. King  Date: 3/11/54

Control checked by (III): A. Queen  Date: 3/11/54

Radial Plot compiled by (III): F. M. Wisiecki  Date: 3/15/54

Planimetry  Date:

Stereoscopic Instrument compilation (III): Contours  Date:

Manuscript delineated by (III): J. Tolodziecki  Date: 9/16/55
R. Hartley
J. Honick

Photogrammetric Office Review by (III): R. Glaser  Date: 10/3/55

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

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time</th>
<th>Scale</th>
<th>Stage of Tide</th>
</tr>
</thead>
<tbody>
<tr>
<td>DPT-5K-107 thru</td>
<td>7/26/52</td>
<td>1000</td>
<td>1:10,000</td>
<td>2.6' above MLW</td>
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<tr>
<td>111</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DPT-5K-170 thru</td>
<td>&quot;</td>
<td>1100</td>
<td>&quot;</td>
<td>4.3'</td>
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<tr>
<td>173</td>
<td></td>
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<td></td>
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</table>

Tide (III)

From Predicted tables

<table>
<thead>
<tr>
<th>Reference Station:</th>
<th>Subordinate Station:</th>
<th>Subordinate Station:</th>
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</thead>
<tbody>
<tr>
<td>Boston</td>
<td>Scituate</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.9</td>
<td>9.5</td>
<td>11.0</td>
</tr>
<tr>
<td>9.0</td>
<td>10.4</td>
<td></td>
</tr>
</tbody>
</table>

Washington Office Review by (IV): S. G. Bloukenbaker

Date: June 1964

Final Drafting by (IV): Baltimore Office

Date: 1955

Drafting verified for reproduction by (IV): S. G. Bloukenbaker

Date: June 1964

Land Area (Sq. Statute Miles) (III): 10

Shoreline (More than 200 meters to opposite shore) (III): 11.4

Shoreline (Less than 200 meters to opposite shore) (III): 15.0

Control Leveling - Miles (II):

Number of Triangulation Stations searched for (II): 26
Recovered: 20
Identified: 12

Number of BMs searched for (II):
Recovered: 4
Identified: 4

Number of Recoverable Photo Stations established (III):

Number of Temporary Photo Hydro Stations established (III):

Remarks:
Summary to Accompany Descriptive Report

T-11169

T-11169 is one of 40 similar shoreline maps comprising project PH-116. T-11169, extending along the west shore of Massachusetts Bay from Peggotty Beach to Humarock Beach, covers New Inlet at the mouths of the North and the South Rivers.
2. AREAL FIELD INSPECTION

The area is located along the west side of Massachusetts Bay and includes parts of the towns of Marshfield and Scituate.

The areas along the bay are more thickly settled than any other parts; most of the beach areas being covered with typical beach cottages catering to the tourist trade during summer.

Away from the beaches the houses are widely scattered along the various roads.

Parts of the area are covered by dense woods and high ridges, with the ridges sloping rather steeply to the rivers and bay.

Field inspection is believed complete and was performed on the following 1:10,000 scale photographs: DPT-5K-106 through DPT-5K-108 and DPT-5K-170 through DPT-5K-173.

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

3. HORIZONTAL CONTROL

All U.S.C. & G.S. control was searched for.

To supplement the control of this Bureau, several third-order traverse stations, established by the Massachusetts Geodetic Survey were identified. These stations are 29B, 29C and M 3A 22.

Station NORTH SCITUATE STACK 1934 was reported lost but was identified. The stack was formerly 165 feet high but has been cut down to its present height of 50 feet. The base of the stack is the same as originally.

The following stations were reported lost: 29A, 29E, 29F and CEDAR POINT.

4. VERTICAL CONTROL

Work requiring vertical control was not a requisite of this project. None was searched for and none was established.

5. CONTOURS AND DRAINAGE

No contouring was required for this shoreline project.

All perennial drainage is along the short streams running inland from the bay. These streams are self-evident from the photographs and have not been indicated.
6. WOODLAND COVER

Adequately covered by the photographs.

(Note: Field inspection completed prior to receipt of Instructions, Field - Project Ph116, Supplement III).

7. SHORELINE AND ALONGSHORE FEATURES

The mean high water line has been indicated at intervals on the photographs. Measurements were taken from identifiable points along the beach in some cases and in others the beach was walked and the mean high water line indicated by inspection.

The area was inspected on two occasions at low water and the approximate low water line has been indicated on the photographs.

The foreshore varies widely in different parts of the map. In some places the foreshore is several hundred feet in width, while in others there is little appreciable distance from the mean high water line to the mean low water line. The area in the vicinity of Third and Fourth Cliffs is a bluff with elevations up to approximately 60 feet. The remaining area is a low sand beach with scattered dunes.

All docks, wharves, piers and landings have been indicated on the photographs.

There are no submarine cables in the area.

8. OFFSHORE FEATURES

No offshore features, other than several rocks near the low water line, were visited. These rocks are of no particular significance to navigation but have been indicated on the photographs together with their elevation above the water at the time and date on which they were visited.

9. LANDMARKS AND AIDS

No new landmarks for charts were selected. The current chart of the area was inspected and no landmarks are to be deleted. There are no aids to navigation in the area.

10. BOUNDARIES, MONUMENTS AND LINES

Inapplicable.

11. OTHER CONTROL

The following recoverable topographic stations were established: BOUNDARY 1953, CENT 1953, MARSH AVE 1953 and WIND 1953.
12. OTHER INTERIOR FEATURES

All roads have been classified according to Paragraph 5441 of the Topographic Manual.

The clearances of two bridges were determined as follows:

<table>
<thead>
<tr>
<th>Stream</th>
<th>Type</th>
<th>Use</th>
<th>Hor. Cl.</th>
<th>Vert. Cl.</th>
<th>Time (EUT)</th>
</tr>
</thead>
<tbody>
<tr>
<td>North River</td>
<td>Pascule</td>
<td>Hwy</td>
<td>31.6 ft.</td>
<td>16.4 ft.</td>
<td>1045 7/6/53</td>
</tr>
<tr>
<td>South River</td>
<td>Fixed</td>
<td>Hwy</td>
<td>30.3 ft.</td>
<td>19.6 ft.</td>
<td>1135 7/3/53</td>
</tr>
</tbody>
</table>

There are no cables over navigable waters.

There are no airports or landing fields in the area.

13. GEOGRAPHIC NAMES

No discrepancies in charted names or new names were found during field inspection.

14. SPECIAL REPORTS AND SUPPLEMENTAL DATA

Letter of Transmittal No. Ph-116-2, Forms 567, Landmarks and Aids to Navigation, to be forwarded to Washington Office at a later date.


Submitted
8 September 1953

William M. Reynolds
Cartographic Survey Aid

Approved & Forwarded
11 September 1953

E. H. Kirsch
E. H. Kirsch
Chief of Party
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR x-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET OR PROJECTION LINE IN METERS</th>
<th>N.A. 1927 - DATUM DISTANCE FROM GRID OR PROJECTION LINE IN METERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCITUATE SECOND CLIFF TOWER, MGS, 1938</td>
<td>p. 215 GT-2-L 1249</td>
<td>42° 11' 29.433</td>
<td>908.1 (923.1)</td>
<td>100.3 (1276.4)</td>
</tr>
<tr>
<td>M3A 22, MGS, 1934</td>
<td>p. 4 MGS</td>
<td>42° 29' 47.731</td>
<td>1145.4 (69.1)</td>
<td></td>
</tr>
<tr>
<td>29B, MGS, 1934</td>
<td>p. 1 MGS</td>
<td>43° 18' 29.792</td>
<td>891.2 (632.8)</td>
<td></td>
</tr>
<tr>
<td>Sub. Pt. 29B</td>
<td>Comp.</td>
<td>43° 18' 02.802</td>
<td>1159.1 (364.9)</td>
<td></td>
</tr>
<tr>
<td>THIRD CLIFF SCITUATE O.P., 1940</td>
<td>p. 515 G-4548</td>
<td>43° 10' 33.297</td>
<td>1048.4 (802.9)</td>
<td>1295.1 (82.0)</td>
</tr>
<tr>
<td>R.M. 1 THIRD CLIFF SCITUATE O.P.</td>
<td>Comp.</td>
<td>42° 10' 56.425</td>
<td>1295.2 (81.9)</td>
<td></td>
</tr>
<tr>
<td>FOURTH CLIFF (USE), 1943</td>
<td>p. 399 G-5933</td>
<td>42° 08' 35.421</td>
<td>1092.9 (758.3)</td>
<td></td>
</tr>
<tr>
<td>29C MGS, 1934</td>
<td>p. 1 MGS</td>
<td>42° 19' 19.533</td>
<td>1446.6 (930.8)</td>
<td></td>
</tr>
<tr>
<td>STODDARD'S BARN CUPOLA, 1885</td>
<td>p. 672</td>
<td>42° 09' 24.53</td>
<td>756.8 (1094.4)</td>
<td>766.4 (611.2)</td>
</tr>
<tr>
<td>NORTH MARSHFIELD UNITARIAN CHURCH SPIRE, 1849</td>
<td>p. 214 GT-2-G 1249</td>
<td>42° 08' 29.599</td>
<td>913.0 (938.3)</td>
<td>678.3 (699.5)</td>
</tr>
<tr>
<td>HOLLY HILL, 1943</td>
<td>p. 399 G-5933</td>
<td>42° 06' 06.238</td>
<td>192.5 (1658.8)</td>
<td>289.8 (1088.2)</td>
</tr>
<tr>
<td>Sub. Pt. HOLLY HILL</td>
<td>Comp</td>
<td>42° 08' 12.617</td>
<td>177.1 (1674.2)</td>
<td>266.4 (1111.6)</td>
</tr>
</tbody>
</table>

1 FT = 304.8006 METERS

COMPUTED BY: J. King DATE: 3/9/54
CHECKED BY: J. Steinberg DATE: 3/10/54
COMPILATION REPORT  
Project No. 6116  
Survey No. T-11169

For Photogrammetric Plot Report, see Descriptive Report for Survey No. T-11173.

31. **DELINEATION**

Graphic methods were used to delineate this manuscript.

The vertical projector was used to compensate for scale difference between the photographs and the map manuscript.

A swamp area (NW corner of this survey) for which there was no field inspection, was transferred to the manuscript from the U.S.G.S. Scituate quadrangle by use of the vertical projector.

The delineation was done on a worksheet and transferred to the manuscript by scribing methods. See paragraph 41.

The interior limits of delineation are as specified by the project instructions.

32. **CONTROL**

Refer to Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**

The revision data for the U.S.G.S. Scituate quadrangle submitted by the field party was used for additional field inspection.

The U.S.G.S. Scituate quadrangle was used for geographic names.

34. **CONTOURS AND DRAINAGE**

Contours: Inapplicable.

Drainage: The unsurveyed drainage symbol was used to delineate drainage, obscured by trees, that have a geographic name.

35. **SHORELINE AND ALONGSHORE DETAILS**

The shoreline and low water line inspection furnished by the field party was adequate.

36. **OFFSHORE DETAILS**

No comment
37. **LANDMARKS AND AIDS**

Form 567 has been submitted for one landmark to be charted.

38. **CONTROL FOR FUTURE SURVEYS**

Forms 524 for four topographic stations have been prepared. They are listed in paragraph 11.

39. **JUNCTIONS**

Junction of the high water line with Survey No. T-9513 (1950), Ph-64, to the north is not in agreement. This is a result of a difference in field inspection between these surveys. Junction with T-11170 to the south is in agreement. No contemporary survey to the west and an all water area to the east.

40. **HORIZONTAL AND VERTICAL CONTROL**

Refer to Photogrammetric Plot Report.

41. **SCRIBING**

After the work sheet was compiled and reviewed the work was transferred on a light-table to a yellow coated sheet sensitized with watercote. The linework was then scribed. The blackline impression made from the scribed sheet, with the addition of stick-up symbols and lettering, is now the map manuscript.

42 - 45 Inapplicable.

46. **COMPARISON WITH EXISTING MAPS**

47. **COMPARISON WITH NAUTICAL CHARTS**

Comparison has been made with Chart No. 1207, scale 1:80,000 published July 1945 (4th edition) corrected to July 19, 1954.

Items to be applied to Nautical Charts immediately:

None.

Items to be carried forward:

None.

Respectfully submitted
16 September 1955

[Signature]
Jack Honick,
Carto. Photo. Aid

Approved and forwarded

[Signature]
E.H. Kirsch,
Comdr. C&GS
Baltimore District Officer
PHOTOGRAHMATIC OFFICE REVIEW
T. 1169


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. Photohydro stations ✓ 8. Bench-marks ✓

ALONGSHORE AREAS
(Nautical Chart Date)

PHYSICAL FEATURES

CULTURAL FEATURES

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

MISCELLANEOUS

40. [Signature] Reviewer
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:

H-2603-12
Review Report
Shoreline Survey T-11169
June 1964

62. Comparison with Registered Topographic Surveys

719    1858    1:10,000 Scale
719a   1909    1:10,000 Scale

T-11169 supersedes the prior survey for charting purposes.

63. Comparison with Maps of Other Agencies

USGS Quadrangle, Scituate Mass., 1961, 1:24,000 scale

No significant differences between the maps were noted.

64. Comparison with Contemporary Hydrographic Surveys

Inapplicable

65. Comparison with Nautical Charts

1207 and 1208, scales 1:80,000

No significant differences were noted.

66. Adequacy of Results and Future Surveys

This map meets the National Standards of Map Accuracy and Bureau requirements.

Reviewed by:

[Signature]

S. G. Blankenbaker

Approved by:

[Signature]

Chief, Photogrammetric Branch  Chief, Nautical Chart Division

[Signature]

Chief, Photogrammetry Division
48. GEOGRAPHIC NAMES

Ames Way
Bares Brook
Bear Island
Branch Creek
Broad Creek
Canoe Tree St.
Carolina Hill
Church St.
Coast Guard Radio Station Boston NMF
Coleman Hills
Country Way
Ferry Hill
Ferry St.
First Church of Christ Scientists
* First Herring Brook
Forest St.
Fourth Cliff
Gilson Rd.
Greenbush
Greenfield Lane
Hannah Farms Brook
Highland St.
Holly Hill
Humarock
Humarock Beach
Herring River
Kent St.
Lewis Pond
** Littles Creek
Macombers Creek
Main St.
Marchfield Hills
Massachusetts Bay
Massachusetts 3A (Hwy)
New Inlet
New York-New Haven & Hartford
North Community Church
North River
North River Marsh
Old Main St.
Old Mouth North River

* Shown on Chart 1207 as Herring River
** Little Creek on Chart 1207

Names approved
5-15-65
A.J. Wright
48. GEOGRAPHIC NAMES (cont'd)

Peggotty Beach
Pine St.
Pleasant St.
Prospect St.

Rivermoor

Scituate Country Club
Sea View
South River
Spring St.
St. Catherine's Chapel
Stockbridge Rd.
St. Therese Chapel
Summer St.

The Driftway
Third Cliff
Tilden Island
Trouant Island

Wales Pond

Wills Island
I recommend that the following objects which have been inspected from seaward to determine their value as landmarks be charted on the charts indicated.

The positions given have been checked after listing by R. Glaser

(Signed) E. H. Kirsch

E. H. Kirsch  Chief of Party.

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>DESCRIPTION</td>
</tr>
<tr>
<td>TOWER</td>
<td>aband. lookout, wooden, ht 40' (9)</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 survey sheets. Information under each column heading should be given.
# Nautical Chart Division

## Record of Application to Charts

**File with Descriptive Report of Survey No.** T-11169

## Instructions

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

1. Letter all information.
2. In "Remarks" column cross out words that do not apply.
3. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Rev.

<table>
<thead>
<tr>
<th>Chart</th>
<th>Date</th>
<th>Cartographer</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1208</td>
<td>9-11-73</td>
<td>J. E. Turner</td>
<td>Full Part Before After Verification Review Inspection Signed Via Drawing No. 32. No Correction. Superseded by RS 767 (8467093) previously applied.</td>
</tr>
</tbody>
</table>

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<table>
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<tr>
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<td>Full Part Before After Verification Review Inspection Signed Via Drawing No.</td>
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**Form C&G.S.3862 Supersedes all editions of Form C&G.S.07B**