
Type of Survey Shoreline
Field No. 6116 Office No. T-11170

LOCALITY
State MASSACHUSETTS
General locality Massachusetts Bay
Locality Duxbury Marsh to Beadles Rocks

1951-1953

CHIEF OF PARTY
E. H. Kirsch, Chief of Field Party
E. H. Kirsch, Baltimore District Officer

LIBRARY & ARCHIVES
DATE January 2, 1966
DATA RECORD

T-11170

Project No. (II): Ph-116

Quadrangle Name (IV):


Chief of Party: E. H. Kirsch

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 70-193h)
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): 20 DEC 1953

Date reported to Nautical Chart Branch (IV):

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

Publication Scale (IV):

Publication date (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III): MHW

Mean sea level except as follows:
Elevations shown as (2) refer to mean high water
Elevations shown as (6) refer to sounding datum
I.e., mean low water or mean lower low water

Reference Station (III): BLACK MOUNT, MGS, 1935

Lat.: 42° 04' 33.48" (1031.1m)  Long.: 70° 41' 03.812" (87.6m)

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.
SHORELINE
All work by W. M. Reynolds

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

Field Inspection by (II): W. M. Reynolds

Date: July 1953

Plane table contouring by (II):

Date:

Completion Surveys by (II):

Date:

Mean High Water Location (III) (State date and method of location):

July 1953 - Field Inspection

Projection and Grids ruled by (IV): A. Riley

Date: 11/1/53

Projection and Grids checked by (IV): H. D. Wolfe

Date: 11/1/53

Control plotted by (III): J. King

Date: 3/2/54

Control checked by (III): L. A. Senasack

Date: 3/4/54

Radial Plot of Long Sections: F. N. Wisiecki

Contouring by (III):

Date: 3/15/54

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): R. M. Whitson

J. E. Tolodziecki

Date: 9/19/55

Photogrammetric Office Review by (III): R. Glaser

Date: 10/10/55

Elevations on Manuscript

checked by (II) (III):

Form T-Page 3
Production and Marketing Administration, single lens and USCGS single lens Camera "J"

PHOTOGRAPHS (III)

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Tide (III)

From Predicted Tide Tables

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 17
Shoreline (More than 200 meters to opposite shore) (III): 5.4 miles
Shoreline (Less than 200 meters to opposite shore) (III): 17.3 miles
Control Leveling - Miles (II): 27
Number of Triangulation Stations searched for (II): 39
Number of BMs searched for (II): Recovered: 27  Identified: 21
Number of Recoverable Photo Stations established (III): 1
Number of Temporary Photo Hydro Stations established (III): None

Remarks:

Date: June 1964
Summary to Accompany Descriptive Report

T-11170
( June 1964 )

T-11170 is one of 40 similar maps comprising Project PH-116. The project covers (1) the shoreline of Cape Cod Bay (2) the entire east shore of Cape Cod, including Monomoy Point, and (3) the islands of Martha's Vineyard and Nantucket. T-11170 covers the Rexhame-Green Harbor area of the west shore of Cape Cod Bay.

The maps were compiled in the Baltimore and Washington Offices.
2. AREAL FIELD INSPECTION

The area is located along the west side of Massachusetts Bay. The land area is a part of the Town of Marshfield.

All beaches immediately adjacent to the bay are thickly settled, mainly in summer, by vacationists. Inland, the population is much more scattered along the various roads.

Large stretches of marsh are found along the short rivers, which run inland from the bay. This marsh is separated by thickly wooded ridges.

Field inspection is believed complete and was performed on the following 1:10,000 scale photographs: DPT-2K-177 through DPT-2K-179, DPT-5K-112 through DPT-5K-115, and DPT-5K-174 through DPT-5K-177.

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

3. HORIZONTAL CONTROL

All Coast and Geodetic Survey control was searched for and where found was identified, with one exception. Station BLACK MOUNTAIN 1935 was recovered but could not be identified without excessive cost and work in traversing to some identifiable point. Station WEBSTER'S (HON. DANIEL) HOUSE, WEST CHIMNEY 1849 was recovered and identified in lieu of the previously mentioned station.

To supplement the control by this Bureau, several third-order traverse stations established by the Massachusetts Geodetic Survey were recovered and identified. These stations are 72A, 72C, 72E, 72F, 72G, 72L, 72M, 29J, 29K, 29Q, and 29U.

The following stations were reported lost: GREEN HARBOR SHARP SPIRE 1903; BRANT ROCK YELLOW CUPOLA 1903; BRANT ROCK YELLOW HOUSE FLAGSTAFF 1909; BRANT ROCK HOTEL FLAGSTAFF 1908; REHABE RARN CUPOLA 1908; MARSHFIELD TALL CHURCH SPIRE 1908; MARSHFIELD FIRST BAPTIST CHURCH SPIRE 1886; 29P; 29R; 29T; and 72D.

4. VERTICAL CONTROL

Inapplicable.

5. CONTOURS AND DRAINAGE

No contouring was required for this shoreline project.

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

7. SHORELINE AND ALONGSHORE FEATURES

   The mean high water line has been indicated at intervals by symbol along the beach. Some measurements were taken to determine the line along the photographs for the compiler to follow. Other places were inspected by walking along the beach and the mean high water line indicated at this time.

   The area was inspected at low water and where appropriate the approximate mean low water line has been indicated on the photographs.

   The foreshore varies in character in the area. In some places it is very steep and there is little horizontal displacement between the two water lines, while in others the horizontal difference is several hundred feet.

   There are no outstanding bluffs in this area. The highest being approximately one mile south of Brant Rock and has a height of approximately 25 feet.

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

8. OFFSHORE FEATURES

   Bartlett Rock was not visited by the field party. It is outside the limits of photography.

9. LANDMARKS AND AIDS

   No new landmarks for nautical charts were selected. The published chart was inspected and none are recommended for deletion.

   There are no fixed aids to navigation in the area.

10. BOUNDARIES, MONUMENTS AND LINES

   Inapplicable.

11. OTHER CONTROL

   The following recoverable topographic station was established:
    BRANT ROCK SEAWALL DATUM 1953.
12. **OTHER INTERIOR FEATURES**

All roads have been classified in accordance with Paragraph 5441 of the Topographic Manual.

Classification of buildings was limited to public or landmark buildings.

There are no bridges or cables over navigable waters.

Marshfield Airport has been indicated on photograph DPT-2K-178. This is a small sod field and suitable for small, light aircraft only.

13. **GEOGRAPHIC NAMES**

No changes were noted.

14. **SPECIAL REPORTS AND SUPPLEMENTAL DATA**

Letter of Transmittal No. Ph-II-6-2, Forms 567, Landmarks and Aids to Navigation, to be forwarded to Washington Office at a later date.

Letter of Transmittal No. Ph-II-6-6, Data, Map T-11L70, forwarded to Washington Office 11 September 1953.

Submitted 8 September 1953

W. W. Reynolds
Cartographic Survey Aid

Approved & Forwarded 11 September 1953

E. H. Kirsch  
Chief of Party

*The original report could not be found at the time of final review (1964)*
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CHECKED BY: L. A. Senasack DATE: 2/25/54
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<tr>
<td>72H, MGS, 1935 Sub. Pt.</td>
<td></td>
<td></td>
<td>42 06</td>
<td></td>
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<td>70 44</td>
<td></td>
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<tr>
<td>72A, MGS, 1936 Sub. Pt.</td>
<td></td>
<td></td>
<td>404,151.17</td>
<td>4,151.17 (848.83)</td>
<td>1265.3 (258.7)</td>
<td>647.9 (876.1)</td>
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<td></td>
<td>827,125.59</td>
<td>2,125.59 (2874.41)</td>
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<tr>
<td>MARSH, MGS, 1935 Sub. Pt.</td>
<td></td>
<td></td>
<td>42 07</td>
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<td></td>
<td>70 43</td>
<td></td>
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</tr>
</tbody>
</table>

1 FT. = 0.3048006 METER

COMPUTED BY: L. A. Senasack

DATE: 2/25/54

CHECKED BY: B. Kuns

DATE: 2/26/54
The Photogrammetric Plot Report for this survey is part of the Descriptive Report for map manuscript T-11173.

31. **DELINEATION**

This map manuscript was compiled by graphic methods.

None of the swamp or marsh areas in the interior were field inspected. These areas were delineated directly from the Duxbury quadrangle by use of the vertical projector, except in the areas where office interpretation of the photographs showed definite changes.

Interior limits of delineation are as specified in the project instructions.

32. **CONTROL**

Refer to Photogrammetric Plot Report.

33. **SUPPLEMENTAL DATA**


The revision data for the Duxbury quadrangle submitted by the field party was used for additional field inspection.

34. **CONTOURS AND DRAINAGE**

Contours: Inapplicable.

Drainage: The Duxbury quadrangle was employed as the source of the unsurveyed drainage shown on this survey.

35. **SHORELINE AND ALONGSHORE DETAILS**

Shoreline inspection was considered adequate. The low water line shown on the survey was field inspected.

36. **OFFSHORE DETAILS**

Bartlett Rock was not visible on the photographs and could not be delineated on this manuscript.
37. LANDMARKS AND AIDS

Form 567 has been submitted for five landmarks in this area.

38. CONTROL FOR FUTURE SURVEYS

Form 524 has been submitted for one recoverable topographic station:

BRANT ROCK SEAWALL DATUM, 1953

No photo-hydro stations have been located in this office. Refer to the hydro data for Photo-hydro stations located by the Hydrographic Party.

39. JUNCTIONS

Junctions with survey T-11173 to the south and T-11169 to the north of this survey have been made and are in agreement.

There is no contemporary survey to the west of this survey. To the east is an all water area.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41 - 45

Inapplicable.

46. COMPARISON WITH EXISTING MAPS

Survey T-11170 has been compared with U.S.G.S. Duxbury Quadrangle, scale 1:31,680, edition 1941, reprinted 1948.
47. **COMPARISON WITH NAUTICAL CHARTS**

Survey T-11170 has been compared with Charts, No. 245, scale 1:20,000 published April 1932 (2nd edition) corrected to 2/26/55 and No. 1207, scale, 1:80,000, published July 1945. (4th edition) corrected to 7/19/54.

Items to be applied to Nautical Charts immediately: None.

Items to be carried forward: None.

Respectfully submitted
September 20, 1955

Ruth M. Whitson
Carto. Photo. Aid

Approved and Forwarded

E. H. Kirsch,
Capt. G&GS
Baltimore District Officer

The original report could not be found at the time of final review.
48. **GEOGRAPHIC NAME LIST**

- Acorn St
- Ames Way

* Bartlett Rock
- Bass Creek
- Beadles Rocks
- Black Mountain
- Bluefish Point
- Bourne Wharf River
- Brant Rock (Island)
- Brant Rock (Village)

- Canal St
- Careswell St
- Carolina Hill
- Cedar Crest
- Chandlers Pond
- Church St
- Coast Guard Radio Station Boston NMF
- Cut River
- Daniel Webster House
- Dike Road
- Duxbury Marsh

- Enterprise St

- Ferry St
- Fieldston
- Forest St
- Furnace Brook
- Furnace Pond
- Furnace St

- Gov. Winslow House
- Great Wood Island
- Green Harbor
- Green Harbor Point
- Green Harbor Marsh
- Green Harbor River
- Grove St

- Kent Park

- Little Wood Island River

- Main St
- Marshfield

- Marshfield Airport

- Marshfield Centre
- Marshfield Country Club Golf Course
- Marshfield Fairgrounds
- Marshfield Neck
- Massachusetts Bay
48. **GEOGRAPHIC NAME LIST (cont'd)**

Massachusetts 3A  
Massachusetts 139  
Moraine St  
Mt. Skirgo St  
Ocean Bluff  
Ocean St  
Parsonage St  
Parsons Pond  
Pine Point River  
Plain St  
Pudding Hill  
Revere  
Sea Rivers Club  
School St  
Snake Hill  
South River  
South River St  
St. Anns Church  
Tea Rock Hill  
Telegraph Hill  
U. S. Coast Guard Station (aband.)  
Ventress Library  
Walnut St  
Webster St  
Wharf Creek  
Winslow Cemetery  
Winslow Road  

* This feature does not appear on the map manuscript.  
** Source of Geographic Name List - U.S.G.S. Duxbury Quadrangle.  
*** Discrepancy - U.S.C. & G. S. Chart No. 1207 - Center Marshfield.
PHOTOGRAMMETRIC OFFICE REVIEW
T. 1170

1. Projection and grids ✓
2. Title ✓
3. Manuscript numbers ✓
4. Manuscript size ✓

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 ✓
9. Plotting of sextant fixes ✓
10. Photogrammetric plot report ✓
11. Detail points ✓

ALONGSHORE AREAS
(Nautical Chart Data)

12. Shoreline ✓
13. Low-water line ✓
14. Rocks, shoals, etc. ✓
15. Bridges ✓
16. Aids to navigation ✓
17. Landmarks ✓
18. Other alongshore physical features ✓
19. Other alongshore cultural features ✓

PHYSICAL FEATURES

20. Water features ✓
21. Natural ground cover ✓
22. Planetale 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 lands ✓

MISCELLANEOUS

33. Geographic names ✓
34. Junctions ✓
35. Legibility of the manuscript ✓
36. Discrepancy overlay ✓
37. Descriptive Report ✓
38. Field inspection photographs ✓
39. Forms ✓

40. [Signature]
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:

[Signature]
M.2633-12
62. **Comparison with Registered Topographic Surveys**

<table>
<thead>
<tr>
<th>Survey</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>612</td>
<td>1:10,000</td>
<td>1856</td>
</tr>
<tr>
<td>612(a)</td>
<td>1:10,000</td>
<td>1909</td>
</tr>
<tr>
<td>3625</td>
<td>1:20,000</td>
<td>1916</td>
</tr>
</tbody>
</table>

T-11170 supersedes these prior surveys for nautical charting purposes.

63. **Comparison with Maps of Other Agencies**

USGS quad-Duxbury, Mass.; scale 1:24,000; date 1961.

No significant differences between the maps were noted.

64. **Comparison with Contemporary Hydrographic Surveys**

H-8164 1954-55 1:10,000 scale

The shoreline on this hydrographic survey originated with T-11170, T-11173 and T-11174. One short section of shoreline was revised by the field party. The revised shoreline was not applied to T-11170. The hydrographic survey has some rock information in the Brant Point-Blue Fish Point Areas, that is not shown on T-11170. Color photography or additional field inspection would be required to map or to check this information.

65. **Comparison with Nautical Charts**

<table>
<thead>
<tr>
<th>Chart No.</th>
<th>Scale</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>245</td>
<td>1:20,000</td>
<td>revised April 1, 1963</td>
</tr>
<tr>
<td>1207</td>
<td>1:80,000</td>
<td></td>
</tr>
</tbody>
</table>

Rock information, not shown on T-11170, has been carried forward to the chart from H-8164 (refer to item 64 of this report). No other significant differences were noted.

66. **Adequacy of Results and Future Surveys**

Except for a possible deficiency in providing rock information (refer to item 64 and 65 of this report), this map meets the National Standards of Map Accuracy and Bureau requirements.
Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Chief, Nautical Chart Division

J. E. Waugh 8/17/65
Chief, Photogrammetry Division

[Signature]

[Signature]
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

<table>
<thead>
<tr>
<th>State</th>
<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</th>
<th>Date of Location</th>
<th>Harbor Chart</th>
<th>Marine Chart</th>
<th>Offshore Chart</th>
<th>Charts Affected</th>
</tr>
</thead>
<tbody>
<tr>
<td>MASSACHUSETTS</td>
<td>TANK</td>
<td>(BRANT TANK, MGS, 1930) Steel, water, 128 ft. high (163)</td>
<td></td>
<td>12 05</td>
<td>36.700</td>
<td>12.115</td>
<td>N.A. Triangle</td>
<td>1938</td>
<td>X</td>
<td>1207, 1208</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STANDPIPE</td>
<td>(MARSHFIELD CENTER, STANDPIPE, MGS, 1930) steel 125 ft. high (265)</td>
<td></td>
<td>12 05</td>
<td>26.963</td>
<td>10.383</td>
<td>221.2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>RADIO TOWER</td>
<td>(GREEN HARBOR, WOU RADIO TOWER B, 1930) Skeleton, steel, 165 ft. high (170)</td>
<td></td>
<td>12 04</td>
<td>34.729</td>
<td>00.115</td>
<td>15.153</td>
<td></td>
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<td>245</td>
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<tr>
<td></td>
<td>RADIO TOWER</td>
<td>(GREEN HARBOR, WOU RADIO TOWER W, 1930) Skeleton, steel, 165 ft. high (170)</td>
<td></td>
<td>12 04</td>
<td>32.382</td>
<td>00.115</td>
<td>21.587</td>
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<tr>
<td></td>
<td>RADIO TOWER</td>
<td>(GREEN HARBOR, WOU RADIO TOWER S, 1930) Skeleton, steel, 165 ft. high (170)</td>
<td></td>
<td>12 04</td>
<td>29.707</td>
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<td>15.911</td>
<td></td>
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<td>245</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.
<table>
<thead>
<tr>
<th>DATE</th>
<th>CHART</th>
<th>CARTOGRAPHER</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1956</td>
<td>245</td>
<td>Kowtowak?</td>
<td>Before</td>
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<tr>
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<td></td>
<td>After</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>Verification and Review</td>
</tr>
</tbody>
</table>

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.