### DESCRIPTIVE REPORT

**Type of Survey:** Shoreline  
**Field No.:** T-13099  
**Office No.:** T-13099

#### LOCALITY

**State:** Massachusetts  
**General locality:** Green Harbor - Brant Rock  
**Locality:** Green Harbor River

**1966-67**

**CHIEF OF PARTY**  
V. Ralph Sobieralski  
Chief, Photogrammetry Division, D.C.

#### LIBRARY & ARCHIVES

**DATE:** April 24, 1968
**PROJECT NO. (i):**
PH - 6707

**FIELD OFFICE (ii):**
Norfolk, Va.
(Green Harbor, Mass.)

**CHIEF OF PARTY**
J. C. Bull
(J. Wilson)

**PHOTOGRA姆METRIC OFFICE (iii):**
Washington, D.C.

**OFFICER-IN-CHARGE**
V. Ralph Sobieralski

**INSTRUCTIONS DATED (i) (iii):**
October 4, 1966 - Field
November 2, 1966 - Office

**METHOD OF COMPILATION (iii):**
B-8 Stereoplotter

**INSCRIBED SCALE (iii):**
1:5,000

**STEREOSCOPIC PLOTTING INSTRUMEN TOM SCALE (iii):**

**DATE RECEIVED IN WASHINGTON OFFICE (iv):**

**DATE REPORTED TO NAUTICAL CHART BRANCH (iv):**

**APPLIED TO CHART NO.:**

**DATE:**

**DATE REGISTERED (iv):**

**GEOGRAPHIC DATUM (iii):**
N.A. 1927

**REFERENCE STATION (iii):**
Brant Rock Seawall Datum 1940

**LAT.:**
42° 05' 28.18"

**LONG.:**
70° 38' 34.962"

**PLANE COORDINATES (iv):**
398,782.0 x = 832,599.03

**STATE:**
Mass.

**ZONE:**
Mainland

**VERTICAL DATUM (iii):**
NHW

**MEAN SEA LEVEL 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

* See note on map concerning rocks awash

---

**ROMAN NUMERALS INDICATE WHETHER THE ITEM IS TO BE ENTERED BY (i) 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.**

---

**USCOMM-DC 36393A-P66**
# Descriptive Report - Data Record

**Field Inspection by (iii):**

<table>
<thead>
<tr>
<th>E. W. Hartford</th>
<th><em>Field Edit by:</em></th>
<th><strong>Date:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>E. W. Hartford</td>
<td>October 1966</td>
</tr>
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</table>

**Mean High Water Location (iii) [State Date and Method of Location]:**

- From tide controlled infra red photography taken Sept. 17, 1966

**Projection and Grids Ruled by (iv):**

<table>
<thead>
<tr>
<th>A. E. Roundtree</th>
<th><strong>Date:</strong></th>
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<tr>
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**Projection and Grids Checked by (iv):**

<table>
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<th>R. Glaser</th>
<th><strong>Date:</strong></th>
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**Control Plotted by (iii):**

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<th>M. Webber</th>
<th><strong>Date:</strong></th>
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**Control Checked by (iii):**

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<tr>
<th>R. A. Youngblood</th>
<th><strong>Date:</strong></th>
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**Radial Plot or Stereoscopic Control Extension by (iii):**

<table>
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<tr>
<th>R. Kelly</th>
<th><strong>Date:</strong></th>
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**Stereoscopic Instrument Compilation (iii):**

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**Manuscript Delineated by (iii):**

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**Photogrammetric Office Review by (iii):**

<table>
<thead>
<tr>
<th>J. P. Battley, Jr.</th>
<th><strong>Date:</strong></th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Jan. 1968</td>
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**Remarks:**

- F. C. Applied Aug. 1967
**CAMERA (KIND OR SOURCE) (III):**

Wild RC 5

<table>
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<th>PHOTOGRAPHS (III)</th>
<th>NUMBER</th>
<th>DATE</th>
<th>TIME</th>
<th>SCALE</th>
<th>STAGE OF TIDE</th>
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<tr>
<td></td>
<td>66 W(C) 1370 thru 1374</td>
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**TIDE (III):**

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<td>SUBORDINATE STATION:</td>
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**WASHINGTON OFFICE REVIEW BY (IV):**

J. P. Battley, Jr.

**DATE:** Jan. 1968

**PROOF EDIT BY (IV):**

**DATE:**

**NUMBER OF TRIANGULATION STATIONS SEARCHED FOR (III):**

**RECOVERED:**

**IDENTIFIED:**

**NUMBER OF BM(S) SEARCHED FOR (II):**

**RECOVERED:**

**IDENTIFIED**

**NUMBER OF RECOVERABLE PHOTO STATIONS ESTABLISHED (III):**

**NUMBER OF TEMPORARY PHOTO HYDRO STATIONS ESTABLISHED (III):**

**REMARKS:**
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
T-13099
Job PH-6707
January 1968

T-13099 is a 1:5,000 scale shoreline survey compiled to provide a new manuscript for hydrographic surveys and to be used as a base for an inset to be included on 1:80,000 scale chart 1207.

The area covered is the Green Harbor River and the coastline of Massachusetts Bay from Brant Rock to just south of Green Harbor River entrance.

Hydrographic surveys had been planned for the spring of 1967, but were delayed and as of the date of this report have not been rescheduled.

Field inspection, encompassing the recovery and identification of horizontal control, the location of landmarks and the identification of shoreline features, was completed in October 1966.

A photogrammetric bridge was achieved in February 1967 utilizing the C-8 stereoplanigraph.

The compilation of the manuscript was completed in the Washington Office in March 1967.

Field edit of the compiled features was accomplished July 17 and 27, 1967, and the few additions or corrections applied to the manuscript in August 1967.

A comparison print was prepared and submitted to the Marine Chart Division to point out rock discrepancies realized by the new survey (see the Review Report, Item 65).

A copy of the manuscript will be registered in the Bureau Archives under T-13099.

Submitted by:

Jeter P. Battley, Jr.

Jeter P. Battley, Jr.
JOB PH-6707
GREEN HARBOR RIVER
MASSACHUSETTS
Shoreline Mapping
SCALE 1:5,000

OFFICIAL MILEAGE FOR COST ACCOUNTS
Sheet No. T-13099
Sq. Miles 4
FIELD INSPECTION REPORT
T-13099
PH-6707
GREEN HARBOR RIVER, MASS.

This report is submitted for one map T-13099. Field work was completed October 26, 1966, and was performed in accordance with Instructions dated October 4, 1966.

AREAL FIELD INSPECTION
The area is the immediate vicinity of Brant Rock and Green Harbor, and is a summer resort which is served by State Highway 139.

The photographic quality was good for inland features, but just fair for alongshore features.

Photographs used for field inspection are listed below: 66-W-3571 color
" " 3572 "
" " 3573 "

HORIZONTAL CONTROL
Horizontal control recovery and identification has been completed in accordance with project instructions.

VERTICAL CONTROL
There was no vertical control recovered.

CONTOURS AND DRAINAGE
Contours are inapplicable. Drainage is entirely composed of tidal streams.

WOODLAND COVER
Woodland cover was classified in accordance with the Topographic Manual.

SHORELINE AND ALONGSHORE FEATURES
The high water line is to be delineated from infrared photography. All other shoreline features are covered by field inspection notes on the photographs. All rocks are shown on Photograph 66-W-3572 color print. There are numerous rocks in this area, and are about all above the low water line.
LANDMARKS AND AIDS
Four nautical landmarks have been recommended for charting. Form 567 is submitted for each.

There are no fixed aids in the area covered by map T-13099.

OTHER CONTROL
One Three Point Fix was taken near station 29 V MGS.

INTERIOR FEATURES
All roads were classified in accordance with Photogrammetric Instructions No. 56.

There are no Swamps in this area.

The marsh limits are to be delineated from infrared photography.

All field Data sent to Rockville, Maryland on 10-26-66.

Submitted by:
26 October 1966
E. W. Hartford
Chief, sub-unit, Photo Party 62

E. W. Hartford
PHOTограмMETRIC PLOT REPORT
JOB PH-6707
GREEN HARBOR RIVER, MASSACHUSETTS

February 15, 1967

21. Area Covered

The report covers T-sheet 13099 of Green Harbor River, Massachusetts.

22. Method

A horizontal bridge was run to provide control for graphic and B & C compilation. The C-B was used for the instrumenta-
tion. Photographs 66-W(C)-1370 thru 1374 were used in bridg-
ing. The adjustment on the IBM 1620 utilized four control
stations with two stations used as checks.

23. Adequacy of Control

The horizontal control provided complied with the project
instructions and was adequate except for BRANT ROCK WIRELESS
POLE. The adjustment indicated a shift in the position of
this station. Reference is made to USC&GS, Descriptions of
Triangulation Stations Book 514, page 10, that BRANT ROCK
WIRELESS POLE should not have been used and should be de-
leted from the triangulation records.

All other stations held well within the accuracy required
by National Standards of Map Accuracy at 1:5,000 scale.

25. Photography

Contact prints were adequate as to coverage, overlap and
definition. Diapositives were found to be very grainy.

Submitted by:

Robert B. Kelly

Approved by:

John D. Perrow, Jr.
<table>
<thead>
<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>LATITUDE OR Y-COORDINATE</th>
<th>DISTANCE FROM GRID IN FEET, OR PROJECTION LINE IN METERS</th>
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<td></td>
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<td>Y=399.723.46</td>
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<td>BRANT ROCK</td>
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<td></td>
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<tr>
<td>BLACK CHURCH SPIRE, 1928</td>
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<td></td>
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<td>42 05</td>
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<td>70 38</td>
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<td></td>
<td></td>
<td>70 39</td>
<td>06.542</td>
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</table>

S.E. Blakenbaker April 1968
31. Delineation

This manuscript was compiled, at a scale of 1:5000, on the B-8 stereoplottter, utilizing 1966 color photography (scale 1:15,000). This photography was taken when the tide was .6' above MLW and afforded an interpretation of foreshore rocks. The shoreline was delineated from tide controlled infrared photographs taken at MHW.

Points were dropped along the shoreline to facilitate hydrographic signal location and cronapaque ratio prints of the color photography were resected to the manuscript and prepared in the usual manner for photo-hydro support. The 3 time ratio of the color photography was printed in black and white.

This manuscript was also delineated to the limits of the survey according to Marine Chart specifications to provide a new base manuscript for Chart 1207.

32. Control

Bridge points furnished by Aerotriangulation were sufficient to adequately compile the manuscript and to locate pass points for photo-hydro support.

33. Supplemental Data

None

34. Contours and Drainage

Inapplicable

35. Shoreline and Alongshore Details

No unusual problems were encountered in compiling the MHWL.

36. Offshore Details

There are numerous rocks in the area. They were delineated as visible on the photography and in accordance with field inspection.
37. Landmarks and Aids

All landmarks recommended by the field inspector were located in the photogrammetric bridge. There are no fixed aids in the area.

38. Control for Future Surveys

None

39. Junctions

There are no junctions in this project.

40. Horizontal and Vertical Accuracy

See bridging report.

41. - 45.

Inapplicable

46. Comparison with Existing Maps

A comparison was made with USGS quadrangle, Duxbury, Mass., scale 1:24,000, 1961.

47. Comparison with Nautical Charts


Approved by

K. N. Maki
Chief, Compilation Section

Submitted by

Rose A. Youngblood

Rose A. Youngblood
# Photo: Photogrammetric Office Review

**T. 13009**

<p>| | | | | |</p>
<table>
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<td>3. MANUSCRIPT NUMBERS</td>
<td>4. MANUSCRIPT SIZE</td>
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## 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

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. Planetary 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

40. Reviewer: Peter L. Hatley Jr. (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

Jacqueline B. Phillips

### Supervisor

K. N. Mathies

43. Remarks
FIELD EDIT REPORT
Special Project AMC-7-67 Green Harbor
T-13099
PH-6707

GENERAL NOTES

This report is submitted in accordance with instructions dated 20 June 1967, and is for one map field edit: the 17 and 27 of July 1967.

51 METHODS

Field edit was accomplished by two methods, by truck and skiff travel.

Additions, and corrections are noted on the discrepancy print in violet ink and referenced to the photographs 66 W 3571 and 3572.

52 ADEQUACY OF COMPI lATION

The delineation of rocks and other features of the map looked very good, the compilers interpretation of the photographs was good.

54 RECOMMENDATIONS

None

56 ROCKS

Sextant fixes were taken on two sunken rocks to verify location, also to locate a rock just south of the sunken rocks at the end of a rocky area, these fixes are plotted on the discrepancy print along with the angles.

The rocks delineated just east of Bluefish Point could have been lobster pot buoys.

57 SHOALS

One shoal off Green Harbor Point is recommended to be developed by Hydro, this is a very large shoal with a rocky bottom and covers at 1/2 ft from 1 foot to about 10 feet.

58 LANDMARKS

All landmarks were visually checked and verified, there are no additions or deletions.

31 July 1967
submitted by

co: Mason

Wilson

E.W. Hartford
61. **General Statement**

See summary in Preface.

62. **Comparison with Registered Topographic Surveys**

Comparison was made with T-11170. T-11170 was compiled in October 1955 from 1952 photography, supplemented by field inspection in July 1953. The survey was reviewed in June 1964 by the Washington Office, Review Section, and listed as superseding prior surveys for nautical charting.

T-13669 supersedes survey T-11170 for nautical charting.

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

USGS quadrangle, Duxbury, Mass.; 1:24,000 scale; dated 1961.

No significant differences, other than new shoreline structures, were noted.

64. **Comparison with Contemporary Hydrographic Surveys**

New hydrography at 1:5,000 scale is planned for the area of this survey, but at present, the manuscript was compared with H-8164, 1:10,000 scale, dated 1954-55. The shoreline on this hydrographic survey originated with T-11170. H-8164 had rock data that was not shown on T-11170. The 1964 Review Report for T-11170 noted this and indicated that color photography and additional field inspection would be required to map and check the rock information. The 1966 field inspection and 1966 color photography revealed many more rocks than those previously charted or evident on H-8164. One shoal area off Green Harbor Pt. was particularly recommended for development by hydrographic surveys in the field edit report.

65. **Comparison with Nautical Charts**

Chart No. 245, 5th Edition, May 8, 1967, 1:20,000 scale. A comparison was made with the above listed chart and a comparison print prepared. There are two bare rocks off
Green Harbor Pt. which are not shown on the published chart, along with numerous field inspected rocks awash. The elevations of the two bare rocks as shown on T-13099 were determined in the field. In addition, Bluefish Pt. is shown as Blue Fish Pt. on the chart. The Geographic Names Section verified that one-word spelling, "Bluefish", is correct.

66. Adequacy of Results and Future Surveys

This map complies with the project instructions and the National Standards of Accuracy. The many rocks awash shown were visible on the color photography, indicated by field inspection and verified by field edit. The 1:5,000 scale of the survey afforded a more detailed delineation of rocks in the area. The shoal area mentioned in the Field Edit Report should be developed by new hydrography.

Reviewed by:

Jeter P. Battley, Jr.
Jeter P. Battley, Jr.

Approved by:

[Signature]
Chief, Photogrammetric Branch

[Signature]
Chief, Photogrammetry Division

[Signature]
Chief, Marine Chart Division
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-6707 (Green Harbor, Mass.)
T-13099

- Bluefish Point
- Brant Rock (rock)
- Brant Rock (town)
- Green Harbor
- Green Harbor Point
- Green Harbor River
- Massachusetts Bay
- Cut River

Approved by:  A. Joseph Wraight  
Chief, Geographer

Prepared by:  Frank W. Pickett  
Cartographic Technician
I recommend that the following objects which have (have not) been inspected from seaward to determine their value as landmarks be charted on (deleted from) the charts indicated.

The positions given have been checked after listing by J. P. Baffle, Jr.

V. Ralph Sobierski

<table>
<thead>
<tr>
<th>STATE</th>
<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitudes</th>
<th>Longitudes</th>
<th>Datum</th>
<th>Method of Location and Survey No</th>
<th>Date of Location verified</th>
<th>Chart A Affected</th>
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<tr>
<td>Massachusetts</td>
<td>TOWER</td>
<td>Concrete, gray, square at</td>
<td>42 05</td>
<td>26.16</td>
<td>70.39</td>
<td>35.85</td>
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<td>10-24-66x x</td>
<td>245</td>
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<td>Brant Rock Ht. 65 (75) ft.</td>
<td>1979</td>
<td>807.1</td>
<td>823.7</td>
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<td>Photo</td>
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<td>RADIO TOWER</td>
<td>Skeleton steel, red, white at</td>
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<td>35.10</td>
<td>70.39</td>
<td>28.0</td>
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<td>T-13099</td>
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<td>RADIO TOWER</td>
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<td>70.39</td>
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This form shall be prepared in accordance with Hydrographic Manual, Publication 20.2, Sec. 1-55, 2-39, 6-36, 7-18 to 22 inclusive, and Fig. 79. Positions of charted landmarks and nonfloating aids to navigation, if redetermined, shall be reported on this form. Revisions shall show both the old and new positions. 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.

* Tabulate Seconds and Meters
# Nautical Chart Division

**Record of Application to Charts**

**File with Descriptive Report of Survey No.** T-13099

## 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 Review.

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