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

DESCRIPTIVE REPORT

Type of Survey  Planimetric

Field No.  Ph-163  Office No.  T-10478

LOCALITY

State  Massachusetts
General locality  Narragansett Bay
Locality  Somerset

1956

CHIEF OF PARTY
Ira R. Rubottom, Chief of Party
W. E. Randall, Baltimore District Officer

LIBRARY & ARCHIVES

DATE  February 26, 1968
DESCRIPTIVE REPORT - DATA RECORD

Project No. (II): 43220

Field Office (II): East Providence, R. I.
Photogrammetric Office (III): Baltimore, Maryland

Instructions dated (II) (III):
(II) 9 April 1956
13 March 1957

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Scale Factor (III): 1.000

Date received in Washington Office (IV):

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Reference Station (III): DIGHTON CORNER 1, 1890

Lat.: 41° 47' 21.36" (659.0 m)  Long.: 71° 10' 17.62" (406.9 m)

Vertical Datum (III): MHW

Publication date (IV):

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)
Field Inspection by (II): Mathew A. Stewart
Leo F. Bengnet

Date: May – October 1956

Planetable contouring by (II):

Date:

Completion Surveys by (II):

Date:

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

1956 (Photogrammetric - Kelsh Plotter)

Projection and Grids ruled by (IV): J. B. Phillips

Date: 8/6/57

Projection and Grids checked by (IV): J. B. Phillips

Date: 8/6/57

Control plotted by (III): B. Kurs

Date: 8/30/57

Control checked by (III): D. M. Brant

Date: 9/5/57

Radial Plotter Stereoscopic
Control extension by (III):

E. L. Rolle

Date: 3/15/58

(E. L. Rolle

Planimetry (B. Kurs

Date: 8/8/58

Stereoscopic Instrument compilation (III):

Contours

Date:

Manuscript delineated by (III): C. A. Lipscomb

(scribed)

Date: 8/5/60


Date: 4/29/60

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

Date:
PHOTOGRAPHS (III)

<table>
<thead>
<tr>
<th>Number</th>
<th>Date</th>
<th>Time (EST)</th>
<th>Scale</th>
<th>Stage of Tide</th>
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<td>56-W-257</td>
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<td>1001</td>
<td>&quot;</td>
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Tide (III)
(From predicted tables)

| Reference Station: Newport, R. I. | Subordinate Station: Taunton, Massachusetts |

<table>
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<tr>
<th>Ratio of Ranges</th>
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<th>Spring Range</th>
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<tr>
<td>-</td>
<td>3.5'</td>
<td>4.4'</td>
</tr>
<tr>
<td></td>
<td>2.8'</td>
<td>3.5'</td>
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</tbody>
</table>

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 13
Shoreline (More than 200 meters to opposite shore) (III): 2 mi
Shoreline (Less than 200 meters to opposite shore) (III): None
Control leveling - Miles (II): None
Number of Triangulation Stations searched for (II): 27
Number of BMs searched for (II): 27
Number of Recoverable Photo Stations established (III): 0
Number of Temporary Photo Hydro Stations established (III): 0

Remarks: THIS MAP WAS NOT FIELD EDITED
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT
T-10478

T-10478 is one of thirty planimetric maps comprising Job PH-163. Project maps cover the Narragansett Bay, Rhode Island-Massachusetts area.

Field inspection preceded compilation. This map was not field edited. The project area was bridged by multiplex and compiled by Kelsh plotter.

The addendum to this Summary includes a discussion of project map accuracy and adequacy.

A cronaflex copy of this map will be registered.
ADDENDUM TO SUMMARIES TO ACCOMPANY
JOB PH-163 MAPS T-10472 through T-10501
(ACCURACY AND FUTURE SURVEYS)

Most of the project maps were used in contemporary hydrographic survey operations. Four hydrographic surveys accomplished in the period of time between 1943 and 1955 cover the project area outside the areas of contemporary surveys.

The contemporary hydrographic surveys have been registered. With one exception they are classified "basic". Survey H-8367 is classified as "basic for charting only".

Considerable difficulty was experienced during smooth plotting and verification of some hydrographic surveys in using signals located by plane table methods. Many of the objects were identified on field photographs by the plane table party. Field identification of these objects was re-examined in the Baltimore Office, Compilation Unit. Some of the objects were relocated photogrammetrically and this revised information was furnished for use in smooth plotting.

The Norfolk Processing Office Addendum to Accompany Survey H-8316 mentions difficulties experienced when plotting sextant angles locating piles, piers, shoreline changes, etc. -- they were seldom in agreement with photogrammetric manuscript positions. The Washington office verifier was unable to adjust the subject information using the available hydrographic data. To assist in resolving the discrepancies, the Photogrammetry Division (Washington Office Review Group) rechecked signal locations on Maps T-10472, T-10473, T-10475 and T-10476. Fifty-seven signal locations and random portions of shoreline were revised by graphic methods using available field photographs that included field identified primary control and signals. This additional work is subject to error due to the condition of the photographs and the more limited use of project control; many discrepancies between the surveys, however, were resolved by using the revised information. No requests for similar rechecks were made by verifiers of other hydrographic surveys.

In part, the problems encountered in survey H-8316 (and H-8394) during hydrography and by verifiers can be attributed to the enlargement of these photogrammetric maps from 1:10,000 to 1:5,000 scale for use in hydro support. Similar problems on
other hydrographic surveys were attributed, in part, to 
correct transfer of signals, substandard plotting and use 
of weak sextant fixes.

Control for project bridging (multiplex) was classified 
"over abundant" (150 stations). While 25% of the stations 
were "difficult to see", only two stations were not held.
Pass points between strips were averaged-adjustment less 
than 0.5 mm.

In addition to the previously mentioned supplemental work 
(relocation of signals and shoreline), two stereoplanigraph 
models were set to test horizontal map accuracy. The models 
covered parts of maps T-10472 and T-10473. A datum difference 
was found to exist between Bureau control and NGS and USGS 
control. Adjustment of these difference produced no appreciably 
shift in map details.

Rock information mapped on some of the photogrammetric surveys 
was incomplete as the result of poor photography inadequately 
supplemented by field inspection. The hydrographer located 
many rocks missed on the photogrammetric survey; and, in 
addition, the hydrographic survey reviewers found it necessary 
to bring forward considerable rock information without the 
benefit of verification by either the photogrammetric surveys 
or the contemporary hydrographic surveys.

These surveys have been used, in part, for nautical charting 
through both direct application of details and indirectly 
through contemporary hydrographic surveys. As previously 
mentioned, all but one of the contemporary hydrographic 
surveys have been registered as "basic surveys". Registration 
of these maps is recommended. Future use of the maps 
for hydro support purposes is not recommended due to the 
previously discussed problems that were encountered. Re-
bridging by analytic aerotriangulation and new mapping with 
ew color and infrared photography is recommended.

S. G. Blankenbaker

NOTE: POLITICAL BOUNDARIES—With the exception of the 
Mass.-Rhode Island State line, none of the numerous 
mapped political boundaries are shown on modern 
charts. In consideration of the loss of some field 
photographs, and requests by photogrammetric 
office reviewers for field verification of bound-
daries, it is recommended that the project maps 
not be considered sources for political boundaries 
(with the exception of the state line). See.
FIELD INSPECTION REPORT
Project 25120
Map T-10478

Please refer to the Field Inspection Report for Map T-10474 for all data pertaining to this map.

Martin C. Moody
Cartographic Survey Aid

Approved:

Ira R. Hubottom
Chief of Party

FIELD PHOTOGRAPHS -
SGW 255, 257, 277, 278, 280

Nos. 257, 277, 278 were missing at the time of final review - apparently lost.
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION</th>
<th>DATUM</th>
<th>LATITUDE OR x-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>LITTLE ROCK SOUTH BASE, 1890</td>
<td>G.P. List p. 617</td>
<td></td>
<td>41 18</td>
<td>54,726</td>
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1 FT = 0.304808 METER

J. C. Richter 29 July 1957
A. K. Heywood 26 March 1957
J. C. Cregan 13 August 1957
<table>
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<tr>
<th>STATION</th>
<th>SOURCE OF INFORMATION (INDEX)</th>
<th>DATUM</th>
<th>LATITUDE OR y-COORDINATE</th>
<th>LONGITUDE OR x-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>54.675</td>
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<td>REHOBOTH CORNER 10, 1890</td>
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<td>22.508</td>
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<td>865.3</td>
<td>outside limits</td>
<td></td>
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<td>DIGHTON-SOMERSET BOUNDARY STONE SOMERSET 4, 1887</td>
<td>p. 608</td>
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<td>71 11</td>
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<td>973.2</td>
<td>outside limits</td>
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<td>HOGBACK, 1890</td>
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<td>WOOD, 1874</td>
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<td>02.554</td>
<td>78.8</td>
<td>1773.3</td>
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<td>BLUFF, 1874</td>
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<td>27.438</td>
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<td>SOMERSET SPIRE 1874</td>
<td>p. 607</td>
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<td>41 46</td>
<td>17.336</td>
<td>1350.1</td>
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<td>WHITE CHURCH SPIRE, 1874</td>
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<td>Sub. Pt. Dighton Corner 1, 1890</td>
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<td>58.627</td>
<td>1508.8</td>
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1 FT. = 0.304800 METER

COMPUTED BY: J. C. Richter DATE: 29 July 1957

CHECKED BY: J. C. Cregan DATE: 13 August 1957
COMPILATION REPORT
Project Ph-163
T-10478

The Photogrammetric Plot Report for this survey is part of the Descriptive Report for Survey No. T-10472.

31. **DELINEATION**

   The Kelsh plotter was used for delineation.

32. **CONTROL**

   Horizontal control was adequate.

   Vertical control inapplicable.

33. **SUPPLEMENTAL DATA**

   Final Name Standard, dated 5 March 1957.

34. **CONTOURS AND DRAINAGE**

   Contours are inapplicable.

   Drainage is complete.

35. **SHORELINE AND ALONGSHORE DETAILS**

   All shoreline and alongshore details are from adequate field inspection.

   No low-water or shoal lines are shown.

36. **OFFSHORE DETAILS**

   Refer to paragraph 8 of the Field Report.

37. **LANDMARKS AND AIDS**

   Form 567 has been submitted for two landmarks to be charted. See Descriptive Report for T-10475 Page 20 of this report.
38. CONTROL FOR FUTURE SURVEYS

STACK, 1956 (landmark) was located photogrammetrically.

39. JUNCTIONS

Junctions have been made as follows:
   To the north - no contemporary survey.
   To the east with T-10479.
   To the south with T-10485.
   To the west - no contemporary survey.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

A small portion of the town line between Somerset and Fall River in
the Taunton River was taken from the USGS Somerset Quadrangle.

42. thru 45 - Inapplicable.

46. COMPARISON WITH EXISTING MAPS

U.S. Geological Survey 7.5 minute Quadrangle Somerset, Massachusetts,

47. COMPARISON WITH NAUTICAL CHARTS

Chart No. 353, scale 1:40,000, published March 10, 1958 (19th edition)
(January 25, 1960).

Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Respectfully submitted

Edward L. Rolle
Carto. (Photo.)

Approved and forwarded

William E. Randall
LCSR, C&GS
Baltimore District Officer
PHOTOGRAMMETRIC OFFICE REVIEW

T- 10478 - Ph 163

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. Plane table 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

Reviewer: Joseph Steinberg
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:
NOTE TO REVIEWER

There are discrepancies in position of detail in the vicinity of the following MGS traverse stations along the east edge of the survey. Map detail was checked at stations SOMERSET SPIRE, 1874 and WHITE CHURCH SPIRE, 1874; and is satisfactory.

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<th>STA</th>
<th>Dimension from Description</th>
<th>Map Dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>98A MGS</td>
<td>892 ft. south of centerline of Hart Street</td>
<td>720 ft.</td>
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<tr>
<td></td>
<td>19.3 ft. east of centerline of Route 138</td>
<td>5 &quot;</td>
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<tr>
<td>98B MGS</td>
<td>3552 ft. south of Hart Street</td>
<td>3480 &quot;</td>
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<td></td>
<td>25.7 ft. west of centerline of Route 138</td>
<td>40 &quot;</td>
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<tr>
<td>98C MGS</td>
<td>244.3 ft. east of centerline of Route 138</td>
<td>230 &quot;</td>
</tr>
<tr>
<td>98D MGS</td>
<td>23.5 ft. west of centerline of County Street</td>
<td>15 &quot;</td>
</tr>
<tr>
<td>98E MGS</td>
<td>172 ft. northeast of centerline of Route 138</td>
<td>180 &quot;</td>
</tr>
<tr>
<td></td>
<td>450 ft. northeast of centerline of Gibbs Street</td>
<td>440 &quot;</td>
</tr>
</tbody>
</table>
61. General Statement

This survey has not been used for hydrographic support purposes. In the compiler's "Note to Reviewer" page included in the back of this Descriptive Report -- discrepancies are noted between map dimensions and dimensions given in Massachusetts Geodetic Survey traverse station descriptions in distances between the stations and roads. Several stereoplanigraph test models were set for project maps T-10472 and T-10473. A datum shift was found between CGS control on T-10472 and a combination of MSG and USGS control on T-10472 and T-10473. A report on the test is included in the Descriptive Report for T-10472; and, the test is discussed in the addendum to the Summary for this map. The subject MSG stations on this map were not used as control for bridging or for compilation.

Differences exist between T-10478 and prior Bureau topographic and hydrographic surveys, and the USGS quad covering the area in horizontal position of shoreline and topographic features in the shoreline area. The only shoreline area on T-10478 is located in the southeast corner of the map (also the area of the MSG control stations mentioned in the preceding paragraph). This area was compiled from Kelsh plotter models set on pass points established by the multiplex bridge and field and office identified Bureau control stations. Compilation photography was not included in the bridge.

62. Comparison with Registered Topographic Surveys

T-5754 1:20,000 1944

T-5754 was the source of shoreline and topography for H-7939, dated 1951 -- except for corrections and additions applied by the hydro party. Comparison of shoreline and alongshore topography is discussed under side heading 64.

63. Comparison with Maps of Other Agencies

USGS quad, Somerset 1:24,000 1948

In view of the differences between T-10478 and prior Bureau surveys noted under side headings 61 and 64 in the location
of features, a number of clearly defined shoreline points were scaled from the quad and plotted on the subject map. A shift toward their location on H-7939 was indicated for some points.

64. Comparison with Hydrographic Surveys

| H-7939 | 1:10,000 | 1951 |

Differences between the surveys in shoreline location amounts to as much as 25 meters, ground distance. This is accounted for, in part, by the enlargement (from 1:20,000 to 1:10,000 scale) of the source of hydrographic survey shoreline (T-7939); and in some cases faulty transfer of details; local datum errors, however, amounting to approximately 15 meters exist.

65. Comparison with Nautical Charts

The landmark stack located near the south end of the town of Somerset is shown on the chart in the position determined through survey H-7939 (1951). This position differs by approximately 30 meters with the position determined through survey T-10478. No other significant differences were noted.

66. Adequacy of Results and Future Surveys

Differences between the survey and other sources are discussed in preceding sections of this report. In view of the amount and distribution of control, and compilation method used, this survey should meet the required accuracy standards. The addendum to the Summary for this survey includes a discussion of project map accuracy and adequacy. The maps will be registered; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by:

S. G. Blankenbaker

Approved by:

Chief, Photogrammetric Branch

Chief, Photogrammetry Division  Chief, Marine Chart Division
GEOPGRAPHIC NAMES
FINIAL NAME SHEET
PH-163 (Mass. & R. I.)
T-10478

-Bark Street
-Beals Ledge
-Bourn Cemetery
-Broad Cove
-Bristol County
-Buffington Corner
-Chace Avenue
-Chace Street
-Cole River
-County Street
-Dighton
-Elm Street
-Fall River
-Hailes Mill Road
-Hart Street
-Hunters Hill
-Labour in Vain Creek
-Lewin Brook
-Marvel Street

-New York, New Haven and Hartford
-North Street
-Palmer Street Cemetery
-Pleasant Street
-Pottersville
-Richmond Hill
-Riverside Avenue
-St. Patrick Cemetery
-Sharps Lot Road
-Simmons Cemetery
-Somerset
-Somerset Avenue
-State Highway 138
-Swansea
-Taunton River
-Whetstone Hill Road
-Williams Street

Approved by:

A. Joseph Waight
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician
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<th>State</th>
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<th>Charting Name</th>
<th>Description</th>
<th>Signal Name</th>
<th>Latitude °</th>
<th>Longitude °</th>
<th>Datum</th>
<th>Method of Location</th>
<th>Survey No.</th>
<th>Date of Location</th>
<th>Number Chart</th>
<th>Charts Affected</th>
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<td>yellow brick ht=153(173)</td>
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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.
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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