**Diag. Cht. No. 1210-2.**

**FORM C&GS-504**

**U.S. DEPARTMENT OF COMMERCE**
**ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION**
**COAST AND GEODETIC SURVEY**

**DESCRIPTIVE REPORT**

<table>
<thead>
<tr>
<th>Type of Survey</th>
<th>Planimetric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Field No.</td>
<td>Ph-163</td>
</tr>
<tr>
<td>Office No.</td>
<td>T-10491</td>
</tr>
</tbody>
</table>

**LOCALITY**

<table>
<thead>
<tr>
<th>State</th>
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</tr>
</thead>
<tbody>
<tr>
<td>General locality</td>
<td>Narragansett Bay</td>
</tr>
<tr>
<td>Locality</td>
<td>Tiverton</td>
</tr>
</tbody>
</table>

**1956-57**

**CHIEF OF PARTY**

I.R. Rubottom, Chief of Field Party
W.E. Randall, Balto. District Officer

**LIBRARY & ARCHIVES**

| DATE               | February 1968                                |

**USCOMM-DC 87022-P88**
Ph-163

Project No. (II): 254499

Quadrangle Name (IV):

Field Office (II): East Providence, R. I.

Chief of Party: Ira R. Rubottom

Photogrammetric Office (III): Baltimore, Maryland

Officer-in-Charge: William E. Randall

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

Method of Compilation (III): Kelsh Plotter

Manuscript Scale (III): 1:10,000

Stereoscopic Plotting Instrument Scale (III): 1:6000
(Pantograph ratio 3/5)

Scale Factor (III): 1.000

Date received in Washington Office (IV): OCT 11 1960

Date reported to Nautical Chart Branch (IV):

Applied to Chart No.

Date:

Date registered (IV):

Publication Scale (IV):

Geographic Datum (III): N.A. 1927

Vertical Datum (III):

Elevations shown as (25) refer to mean high water
Elevations shown as (s) refer to sounding datum
i.e., mean low water or mean lower low water

Reference Station (III): ANTHONY, 1843

Lat.: 41° 38' 45.797" (1412.9 m) Long.: 71° 13' 18.735" (1333.5 m)

Adjusted

Plane Coordinates (IV):

Y =

X =

State: Rhode Island
Zone: ___
Massachusetts
Mainland

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.
Field Inspection by (II): S. G. Blankenbaker
Leo F. Beugnet
Date: May - October 1956

Planetary contouring by (II):

Completion Surveys by (II): Limited field edit (shoreline and
dlongshore features) accomplished during hydro-
graphy (H-8396)
Mean High Water Location (III) (State date and method of location):
1 May 1956 - Photogrammetric

Projection and Grids ruled by (IV): J. R. Haskins
Date: 6/16/57

Projection and Grids checked by (IV): I. Y. Fitzgerald
Date: 6/16/57

Control plotted by (III): E. L. Rolle
Date: 8/28/57

Control checked by (III): B. Kurs
Date: 9/5/57

Stereoscopic
Control extension by (III): E. L. Rolle
Date: 3/13/58

Stereoscopic Instrument compilation (III):
Planimetry J. C. Richter
Date: 1/22/59

Contours
Date: --

Manuscript delineated by (III):
(Scribed) Matthew S. Cunningham
Date: 2/5/60

Photogrammetric Office Review by (III): Joseph W. Vonasek
Date: 1/15/60

Elevations on Manuscript
checked by (II) (III): ---
Date: ---
DESCRIPTIVE REPORT - DATA RECORD

Camera (kind or source) (III): C&GS Camera W, 6" focal length

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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<tbody>
<tr>
<td>56-11-242 thru 245</td>
<td>5/1/56</td>
<td>9:31</td>
<td>1:30,000</td>
<td>2.5' above MLW</td>
</tr>
<tr>
<td>260</td>
<td></td>
<td>9:46</td>
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<td>2.6'</td>
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Table of Predicted Tides

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<thead>
<tr>
<th>Tide (III)</th>
<th>Ratio of Ranges</th>
<th>Mean Range</th>
<th>Spring Range</th>
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<tr>
<td>Newport, R. I.</td>
<td>3.5</td>
<td>4.4</td>
<td></td>
</tr>
<tr>
<td>Tiverton</td>
<td>3.8</td>
<td>4.7</td>
<td></td>
</tr>
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</table>

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

Final Drafting by (IV):

Drafting verified for reproduction by (IV):

Proof Edit by (IV):

Land Area (Sq. Statute Miles) (III): 6
Shoreline (More than 200 meters to opposite shore) (III): 16.2 mi
Shoreline (Less than 200 meters to opposite shore) (III): 2
Control Leveling - Miles (II):
Number of Triangulation Stations searched for (II): 18
Number of BMs searched for (II):
Number of Recoverable Photo Stations established (III): None
Number of Temporary Photo Hydro Stations established (III):

Remarks: See paragraph 38.
SUMMARY TO ACCOMPANY DESCRIPTIVE REPORT

T-10491

T-10491 is one of 30 planimetric maps comprising Project PH-163. Project maps cover the Narragansett Bay, Rhode Island, Massachusetts, area.

Field inspection preceded compilation. Limited field edit (shoreline and alongshore features) was accomplished by the hydrographic party.

The project area was bridged by multiplex and compiled by a Kelsh Plotter.

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

A cronaflex copy of the 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
incorrect 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 MGS and USGS
control. Adjustment of these difference produced no appreciable
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-
bridding by analytic aerotriangulation and new mapping with
new color and infrared photography is recommended.

S. G. Blanketbaker

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-10471

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. Arbottom
Chief of Party

FIELD INSPECTION PHOTOGRAPHS
56W 242, 243, 244, 260, 261, 262, 263, 264

54W 1196 (and 260)

Photograph 56W 264 was missing at the time of final review — apparently lost.
<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>
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<tbody>
<tr>
<td>HUMMOCK 2, 1953</td>
<td>OF LIST p. 99</td>
<td>41 38</td>
<td>13 190</td>
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<td></td>
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<td>71 13</td>
<td>11 574</td>
<td>267.9</td>
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<td>TIVERTON, 1917</td>
<td></td>
<td>41 37</td>
<td>40 022</td>
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<td>71 12</td>
<td>23 986</td>
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<td>ANTHONY, 1843</td>
<td>p. 96</td>
<td>41 36</td>
<td>45 797</td>
<td>1412.9</td>
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<td></td>
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<td>71 13</td>
<td>18 735</td>
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<td>BLACK TANK, 1932</td>
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<td>09 186</td>
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<td>MOUNT HOPE BAY EAST BDY, 1887</td>
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<td>41 40</td>
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<td>MOUNT HOPE 2, 1874</td>
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<td>FALL RIVER-TIVERTON NO. 1 (MGS) 1934</td>
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<td>41 40</td>
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<td>FLAG ON POINT, 1917</td>
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<td>41 561</td>
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<td>FOCASSET, 1843</td>
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<td>41 32</td>
<td>08 067</td>
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<td>71 11</td>
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<td>Sub. Pt. POCASSET, 1843</td>
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<td>&quot;</td>
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</table>
COMPILATION REPORT
T-10491

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 is inapplicable.

33. **SUPPLEMENTAL DATA**
   
   Geographic name standard dated 5 March 1957.

34. **CONTOURS AND DRAINAGE**
   
   Drainage is complete. Contours are inapplicable.

35. **SHORELINE AND ALONGSHORE DETAILS**
   
   All shoreline detail is from field inspection which was thorough. Low-water lines are delineated as indicated by the field inspection.

36. **OFFSHORE DETAIL**
   
   Refer to paragraph 8 of the field report.

37. **LANDMARKS AND AIDS**

   Forms 567 have been submitted for three landmarks to be charted, and one to be deleted.
38. CONTROL FOR FUTURE SURVEYS

The shoreline, shoreline pass points and ratio photographs were prepared for the use of the hydrographic party. The signals located by the Photo-Hydro Support party in the 1957 season in this area were considered final (ltr 73/443, 2 December 1957, to East Coast Field Party).

No topographic stations were located.

39. JUNCTIONS

Junctions have been made as follows:
- To the north with T-10484.
- To the east with T-10492.
- To the south with T-11128 (Ph-142).
- To the west with T-10490.

40. HORIZONTAL AND VERTICAL ACCURACY

No comment.

41. BOUNDARIES

The boundaries shown were delineated from the quadrangle in the vertical projector. The Massachusetts-Rhode Island State Boundary was delineated between triangulation stations.

42. thru 45. Inapplicable.

46. COMPARISON WITH EXISTING MAPS

- Bureau Survey No. T-5750 (1944), scale 1:20,000, date of issue June 1949.

47. COMPARISON WITH NAUTICAL CHARTS


Items to be applied to nautical charts immediately: None.

Items to be carried forward: None.

Approved and forwarded

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

Respectfully submitted
15 January 1960

Joseph W. Vonasek
Carto. (Photo.)
PHOTOGRAMMETRIC OFFICE REVIEW
T. 10491


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 Date)

PHYSICAL FEATURES

CULTURAL FEATURES

BOUNDARIES
31. Boundary lines ✓ 32. Public land lines

MISCELLANEOUS

40. Reviewer
   [Signature]

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.

43. Remarks:

[Signature] [Date]
Review Report  
T-10491  
Jan. 1968

62. Comparison with Registered Topographic Surveys

5750  1944  1:20,000

T-10491 supersedes the prior survey for nautical charting purposes in the common area except for some rock information carried forward to hydrographic survey H-8396 (refer to heading 64).

63. Comparison with Maps of Other Agencies

USGS Fall River, Mass.-R.I.  1949  1:24,000

No significant differences were noted.

64. Comparison with Contemporary Hydrographic Surveys

H-8396  1957  1:10,000

The surveys were compared during review of the hydrographic survey. Discrepancies noted during the review were resolved during this review of T-10491. The surveys are in agreement.

65. Comparison with Nautical Charts

353  1:40,000  1/17/66

No significant differences were noted.

66. Adequacy of Results and Future Surveys

Project photography was poor for the purpose of interpreting alongshore details (rocks, piles, etc.); and, in addition, field inspection of these features were incomplete.

In view of the amount and distribution of control 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. Registration of project maps is recommended; remapping, however, is recommended for future hydrographic survey support purposes.

Reviewed by

S. G. Blankenbaker
Approved by

[Signature]
Chief, Photogrammetric Branch

Ralph Dobiasalaski
MAR 26 1969
Chief, Photogrammetry Division

[Signature]
Chief, Marine Chart Division
GEOGRAPHIC NAMES

FINAL NAME SHEET

PH-163 (Mass. & R. I.)
T-10491

- Almy Point
- Anthony Point
- Anthony Road
- Bay Street
- Bayside City Home and Infirmary
- Blue Hill Cove
- Boyd Lane
- Bristol (town)
- Bristol County (Mass.)
- Bristol County (R. I.)
- Bristol Neck
- Cedar Island Pond
- Church Cove
- Common Fence Point
- Cook Hill
- Creamer Pond
- Essex Public Library
- Fall River
- Fall River Sewage Disposal Plant
- Fish Road
- Fort Barton School
- Founders Brook
- Hen Island
- Highland Road
- Hummock Point
- Island Park
- King Phillips Chair
- Long Neck Cove
- Main Road
- Massachusetts
- Mount Hope
- Mount Hope Bay
- Mount Hope Point
- Newport County
- New York, New Haven and Hartford
- North Tiverton
- Old Orchard Cove
- Pocasset Cemetery
- Pocasset Hill
- Portsmouth
- Rhode Island (island) See note.
- Rhode Island (state)
- Saint Christopher Church
- Sakonnet River
- Seal Island
- Seal Rock
- Sherman Island
- Sin and Flesh Brook
- Spectacle Island
- State Avenue
- Stone Bridge
- Temple Chapel
- The Cove
- The Hummocks
- Tiverton (township)
- Tiverton (village)
- Tommy Island
- Town Pond
- U. S. Air Force Tiverton Fuel Storage Station
- William R. Souza Road
- Woodman Street
- Aquidneck Island See note.

Approved by:

A. Joseph Wright
Chief Geographer

Prepared by:

Frank W. Pickett
Cartographic Technician

* This name was changed to "Rhode Island in 1964 - Date
this map, 1967
* Checked by F.W. Pickett Nov 26, 1968
I recommend that the following objects which have not 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 Isaiah Y. Fitzgerald

I. R. Rubottom

Chief of Party

<table>
<thead>
<tr>
<th>STATE</th>
<th>MASSACHUSETTS - RHODE ISLAND</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHARTING NAME</td>
<td>TANK (BLACk TANK, 1932)</td>
</tr>
<tr>
<td></td>
<td>steel, water ht 125 (143)</td>
</tr>
<tr>
<td></td>
<td>square tower, pyramid top ht 74 (212)</td>
</tr>
<tr>
<td></td>
<td>SPIRE (BAPTIST CHURCH SPIRE, 1917)</td>
</tr>
<tr>
<td></td>
<td>POCASSET (POCASSET, 1843)</td>
</tr>
<tr>
<td></td>
<td>POEASSET (POCASSET, 1843)</td>
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<td>HILL</td>
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<td>SPIRE</td>
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</table>

<table>
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<tr>
<th>METHOD OF LOCATION AND SURVEY NO.</th>
<th>DATE OF LOCATION</th>
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<td>7/30</td>
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<tr>
<td>1270</td>
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<tr>
<td>n</td>
<td>7/24</td>
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<tr>
<td>353, 1210</td>
<td></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. 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
I recommend that the following objects which have (deleted) been inspected from seaward to determine their value as landmarks be (deleted from) the charts indicated.

The positions given have been checked after listing by **Isaiah X. Fitzgerald**

<table>
<thead>
<tr>
<th>STATE</th>
<th>RHODE ISLAND</th>
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<td>BUILDING</td>
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<tr>
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**INSTRUCTIONS**

A basic hydrographic or topographic survey supercedes 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.